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E R R A T A. ---

Page 24. The total production in the third column of figures for Clay County should read 60,455.

Page 31. After Mabscott, the total production in the third column of figures should read 48,500.

Page 121. In line 321 the name of the Mine Boss should read J. M. Laing.

Page 126. In line 494 the name of the County should read Mercer.



No. _____
Bureau of West Virginia
Experiment Station

TWENTY-THIRD

ANNUAL REPORT

COAL MINES

IN THE STATE OF

WEST VIRGINIA, U. S. A.

FOR THE YEAR ENDING

JUNE 30, 1905.

JAMES W. PAUL,
CHIEF MINE INSPECTOR,
CHARLESTON.



CHARLESTON:
THE TRIBUNE PRINTING COMPANY,
1906.

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PERSONNEL OF THE DEPARTMENT OF MINES.

—
JAMES W. PAUL, *Chief Mine Inspector.*

ISAAC M. KELLEY, *Inspector for 1st District.*

EARL A. HENRY, *Inspector for 2nd. District.*

EDWARD PINKNEY, *Inspector for 3rd District.*

SAMUEL S. COOPER, *Inspector for 4th District.*

EDWARD V. BYRNE, *Inspector for 5th District.*

—
MISS FRANCES TRUSLOW, *Clerk.*

LETTER OF TRANSMITTAL.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA.

To His Excellency, WM. M. O. DAWSON,
Governor of West Virginia.

SIR:—I have the honor, in compliance with the provisions of chapter 46 of the Acts of the Legislature of 1905, to submit herewith the first annual report of the Department of Mines for the year ending June 30th, 1905, being the ninth annual report made by me, and including the Twenty-Third annual report upon the condition of coal mines within the State.

Very respectfully,

JAMES W. PAUL,
Chief Mine Inspector.

Charleston, W. Va., December 14, 1905.

INTRODUCTION.

The mining statutes require the Chief Mine Inspector in his annual report to include reports upon the condition of the mines; the number of visits and inspections made; the quantity of coal and coke produced; the number of men employed; the number of mines operated; coke ovens in and out of blast; improvements, prosecutions, etc., and such other information in relation to the subject of mines, mining inspection and needed legislation as the Chief Mine Inspector may deem of public interest and beneficial to the mining interests of the State.

This report has been compiled in strict conformity with the above.

For convenience the various topics have been arranged in groups under the following titles:

*Annual Report—Descriptive,
Statistical,
Improvements,
Strikes,
Directory of the Mines,
Accidents,
Condition of the Mines, and an
Appendix.*

In the Appendix will be found a tabulated statement of the methods of mining coal in the different counties of the State and the production of coal by the Geological Series, also correspondence and opinions of the Attorney General upon the interpretation and scope of the Mining Laws of the State.

ANNUAL REPORT,

ANNUAL REPORT.

To the Governor:

In conformity with the mining statutes this report is submitted for the fiscal year ending June 30th, 1905.

In keeping with former reports the contents of this is here given a review in order that the matter treated may be briefly brought to attention.

Scope of Work.—Since the issue of the last annual report the 1905 Legislature of the State has intervened and during the closing hour of its session a bill was enacted creating the "Department of Mines" and providing for seven mining districts within the State to look after the inspection of commercial coal mines which then numbered six hundred and fifty, but which have increased to six hundred and ninety-six on July 1st, the date when the act became operative in supplying seven district inspectors.

Few citizens of our great State seem to fully appreciate the enormity of the coal development, and this development has so far surpassed all expectations that the transportation lines have utterly failed to handle the coal tonnage offered.

As a consequence the district inspectors now provided are unable to do justice to the work and territory assigned them, and until our Legislators learn to appreciate the conditions and act upon unbiased and unselfish advise, little relief may be expected.

Inspections Made.—During the year the five district inspectors submitted to the office of the Chief Mine Inspector 847 written reports upon mines visited and inspected. This number, however, does not include 441 visits made to the mines for the purpose of examining into the cause of accidents and fatalities.

At the date of this report's going to press there are 700 coal mines within the State which require inspections to be made, an average of 100 mines for each inspector, but these are not equally distributed among the inspectors for geographical reasons.

Much good has resulted in recent years by reason of the inspection force; many mines have been much improved in ventilation and general safety, but the ratio of fatalities has not been reduced; on the contrary, the ratio has increased, which is true throughout the mining fields of the United States.

Labor.—The changing conditions at the mines within the past decade have materially revolutionized the character of labor employed. This condition has been brought about by reason of the introduction of machinery to supplant the work formerly done by manual labor and animals.

The time was when miners had to serve an apprenticeship before being permitted to assume the responsibilities of a miner, but these conditions do not now exist, and inexperienced men are employed who load after machines and who know practically nothing about the dangers within a mine and as a consequence they are unable to exercise the care essential to their own safety. This is an acknowledged status of labor and any safeguard that may decrease the list of fatalities will have to be made to operate through those having immediate supervision of the employe.

We have here a practical illustration of what constitutes a form of government; that is, a large body of laborers unable to protect themselves, and to secure for them this protection there should be legislation imposing a duty upon the mine boss to exercise due care and precaution against all dangerous practices within the mine, with a penalty attached for lack of vigilance on his part.

Licensed Mine Boss.—The foregoing outline of the conditions surrounding the mine employes is sufficient to conclude that it is of the greatest importance that greater protection should be given to the inexperienced miner.

To the inspection force a remedy presents itself in requiring all mine bosses and fire bosses to have a state license before being permitted to act as a boss, foreman or to be in charge of labor within the mines. Where the mine inspectors find that the mine boss or foreman of any mine is not enforcing the State Mining Law, the rules of the mine, or is permitting any dangerous practices, his license should be at once revoked. It is thought that this plan will more effectively reduce the fatalities and improve the conditions of the mines than to require mine bosses to undergo a technical examination before a Board of Examiners.

In the special report made by the Chief Mine Inspector on May 27th, 1905, this suggestion was made and many expressions of endorsement have been made by practical coal men and mine employes for its adoption.

In a number of instances mine bosses have been found in charge of large mines, but had little knowledge of the State Law. Some provision will have to be made to require the officials to become familiar with the law.

With a view of improving conditions at the mines the following circular letter, addressed the district inspectors, was sent to each coal operator:

JAMES W. PAUL,
CHIEF MINE INSPECTOR,
State of West Virginia.

Charleston, April 15, 1905.

Mine Operators of West Virginia,

Gentlemen:—The appended letter of instructions has been furnished each of the District Mine Inspectors and this communication is forwarded to you for your information.

Very respectfully,

JAMES W. PAUL,
Chief Mine Inspector.

STATE OF WEST VIRGINIA,
OFFICE OF THE CHIEF MINE INSPECTOR,

Charleston, W. Va., April 15th, 1905.

To the District Mine Inspectors:

Sirs: You are directed to give special attention to the following instructions in your inspection work:

1. As provided by law you will enforce the provisions against taking into the mines any excessive quantities of powder, and insist that all powder be carried in metallic cans of a capacity not to exceed 5 pounds.

In no case allow an original can of powder to be taken into the mine, and if you find such within the mine, containing powder, order it taken to the outside at once.

2. In all mines, where the breakthroughs in the rooms are not closed as additional breakthroughs are made, insist upon "checks" being placed across the entry to divert the current of air into the rooms, and if the ventilation is not sufficient insist upon the brattices being placed in the breakthroughs between rooms.

3. Where dust is encountered within the mines, insist upon its removal from the mine, and the dry parts of the mine made wet by spraying systematically and regularly with an apparatus which meets with your approval. The pouring on and scattering of water with a pail will not be approved. The dust on the "ribs" must be made damp.

4. Upon each inspection of a mine insist upon seeing that a copy of the rules is posted, and that stretchers and blankets are kept on hand, as is required by law.

5. The provisions of the oil law must be enforced and where necessary the penalties of the law shall be applied.

6. Beginning May 1st, 1905, in your inspection work you will be required to see that all coal operators have on hand a safety lamp, kept in good order, which you shall inspect upon each visit to the mine.

7. Encourage mine operators and bosses to make use of the anemometer and to take regular measurements of their air.

8. In order that the injured employe may be given immediate relief it is recommended that each operator be requested to have placed at each mine a supply of bandages, absorbents, disinfectants, linseed oil, soda and stimulants, properly enclosed in a case, for emergency use.

Directions 7 and 8, above, are made in the nature of suggestions, but are not required by law.

All reasonable effort shall be made by the inspectors to have a compliance with the above, and any failure shall be promptly reported to the Chief Mine Inspector.

Very respectfully,

JAMES W. PAUL,

Chief Mine Inspector.

Miners' Oil.—The mining statutes require that oil used in open lamps within the mines be of a quality equal to cottonseed oil so far as its smoke is concerned. Considerable trouble is had in the strict enforcement of this law. In the first place, the competition among the refiners and oil

compounders results in a fight for the trade which leads to offering an inferior grade at a less price. In the second place the retailers do not co-operate to enforce the law but are desirous of the profit upon the oil and they generally have a standard selling price regardless of the cost of the oil.

Miners oil, which cost delivered 24 to 35 cents per gallon, is sold to the miners at 50 to 75 cents per gallon.

In the third place, the miner is anxious to reduce the expense of his oil and to accomplish this he buys kerosene oil at 12 cents to 15 cents per gallon and mixes it with the miners' oil.

The ways, means and devices of the oil companies adopted to evade the law are as sleek as the lubricants they offer the market.

An effort is being made to have a compliance with this law, but with all interested factors opposing its requirements it has not as yet been fully complied with in any field of the State.

The Chief Inspector has given much personal attention to this oil law and with the co-operation of the district inspectors much good has been accomplished.

Joint Inspections.—During the past year this Department has cooperated with the Mine Inspection Department of the State of Ohio in examining the mine owned by the La Belle Iron Works, of Steubenville, Ohio. This mine's entrance is a shaft in the State of Ohio, but the workings have extended under the Ohio River to the West Virginia side where, in Brooke County, the principal area of virgin coal is operated.

For reason of the mine's development being under West Virginia soil and the exit of the product being in the State of Ohio, it became a question of some importance which State Mining Department had jurisdiction.

The question was submitted by Hon. George Harrison, Chief Inspector of Mines of Ohio, to the Attorney General of Ohio, and by the writer to the Attorney General of West Virginia, with the result that it was considered better for the two Departments to act jointly in making the inspections, but to act individually in making requests or recommendations to the operating company.

Change in Inspector.—On November 27th, 1904, Mr. Jerry Westlake, Inspector of the Fifth District, tendered his resignation as inspector, effective December 1st, 1904.

On December 5th, 1904, the Governor appointed Mr. E. V. Byrne to the office of district inspector to serve the unexpired term of Mr. Westlake.

Growth of Coal Industry.—At the close of this fiscal year there are 696 commercial mines within the State, operated by 364 companies, an increase of 67 mines and 34 coal companies during the year.

Production and Value.—The total production of coal from all mines for the year was 31,503,029 tons of 2,240 pounds, representing a spot value of \$30,557,938.13. The coke manufactured was 2,738,777 tons of 2,000 pounds valued at the ovens at \$4,792,859.75.

The manner in which the coal tonnage was disposed is as follows:

Used in operating the mines.....	512,089
Local trade and tenants.....	378,522
Used in the coke ovens.....	3,890,374

Shipped from the mines..... 26,722,044

A total in tons of 2,240 lbs. of..... 31,503,029 of which
 Were pick mined..... 21,187,248 and
 Machine mined..... 10,315,781 tons.

The above tonnage compared with the previous year originated in the Geographical Districts as follows:

	1905	1904	Changes	
Potomac District.....	1,633,517	1,619,340	I	14,177
Monongahela District.....	7,867,931	7,396,161	I	471,770
Wheeling District.....	714,250	553,984	I	160,266
Kanawha-New River District.....	11,034,257	9,293,771	I	1,740,486
Norfolk & Western District.....	10,073,074	7,951,459	I	2,121,615
Small Mines in the State.....	180,000	170,000	I	10,000
Totals.....	31,503,020	26,984,715	I	4,518,31

The figures show an increase in coal over 1904 of 4,518,314 tons. The coke increase over 1904 was 462,326 tons.

The total gross revenue obtained from the coal and coke summarizes as follows:

Total value of coal produced.....	\$30,557,938.13
Less value of coal used for steam at mines \$ 496,726.33	
Less value of coal used in coke ovens....	3,773,662.78
	4,270,389.11
Total value of coal sold.....	\$26,287,549.02
Total value of coke produced.....	4,792,859.75

Total gross value of product placed on the market..... \$31,080,408.77

Machine Mined Coal.—The production of coal by the use of mining machines continues to increase and the tonnage for the year is 10,315,781 or 32.74 per cent of the entire production, being in excess of the total production of the State for the year 1895, and almost equal to the pick mined coal in 1897.

At 280 mines there are in use 1,158 machines, furnishing 10,237 persons employment.

The following table exhibits the record of machine mining since 1897:

Progress of Machine Mined Coal, 1897 to 1905, Inclusive.

YEAR	No. of mines using Machines	No. of Machines in use	Total employes incident to machines	Tons produced by machines	Percentage of coal to total coal production	Days worked
1897.....	16	55	652	600,418	5.12	197
1898.....	28	96	953	1,070,293	7.4	214
1899.....	41	141	1,608	1,733,279	10.66	240
1900.....	63	241	2,371	2,537,611	13.43	261
1901.....	90	383	3,967	3,582,853	17.65	225
1902.....	124	534	4,813	5,135,823	21.98	249
1903.....	181	795	6,531	6,312,894	27.50	201
1904.....	248	988	8,395	8,317,692	30.82	209
1905.....	280	1,158	10,237	10,315,781	32.74	213
Totals.....				39,606,644		Avg 223

Tons for 1905 per each employe..... 1,007
 Tons per each employe per year..... 1,002.3
 Tons produced by each machine per year..... 9,013.8
 Average days worked per year..... 223

Average tons produced by one machine per day 40.4

Average tons produced by one machine per month of 26 days... 1,050.4

Tons of Pick Mined Coal Produced Per Each Pick Miner, in Commercial Coal Mines, 1897 to 1905, Inclusive.

YEAR	Pick coal from commercial mines	Pick coal from small country mines	Pick miners in commercial mines	Pick miners in small country mines	Days worked	Tons produced in commercial mines per miner
1897.....	10,971,482	133,929	13,218	No rec'd	197	880.
1898.....	13,084,572	140,000	14,036	do	214	932.
1899.....	14,366,871	150,000	14,119	do	240	1,017.5
1900.....	16,199,300	150,000	14,723	do	261	1,100.
1901.....	16,533,138	175,000	16,609	do	235	995.
1902.....	18,043,260	180,000	15,969	do	249	1,129.8
1903.....	16,420,804	180,000	16,287	do	201	1,008.
1904.....	18,497,023	170,000	18,880	do	209	979.7
1905.....	21,007,248	180,000	19,602	do	213	1,071.7
Totals.....	145,123,698	1,458,929	143,443		2,009	

Average tons per year for each miner..... 1,012.

Average time worked per year..... 223 days.

Acreage Mined.—The total acreage of coal mined within the State, based upon returns made by the operators and calculations of this office, since 1897, is presented in the following table:

1897	1,733.9 Acres.
1898	2,184.5 "
1899	2,361.2 "
1900	2,638.8 "
1901	2,854.6 "
1902	3,353 "
1903	3,222.3 "
1904	3,967.9 "
1905	4,691.8 "

Total..... 27,008.0 Acres.

Days Worked.—The mines throughout the State averaged 213 days work during the year, or four more than during the previous year. The coke ovens averaged 248 days, or 26 more than during the previous year.

Transportation.—The tonnage of West Virginia coal handled by the railroads within the State during the year was 27,479,358 net tons, and of coke 3,010,095 net tons. The apparent discrepancy between the coal and coke handled and the quantity shipped from the mines is accounted for by reason of two or more railroads handling a part of the same tonnage.

Kanawha River Shipment.—For the calendar year, 1904, the tonnage of coal floated out of the Great Kanawha River amounted to 1,068,440 net tons; which does not include the tonnage of coal consumed by water craft and local river trade.

For the calendar year 1905 it is estimated that the quantity floated out of the river will reach 1,458,000 net tons exclusive of local river trade.

Coke Ovens and Production.—At 121 coke plants there is reported a total of 16,680 ovens, of which 10,254 were in use during 248 days and 6,424 were idle.

In the active ovens 4,357,218 net tons of coal were used in the manufacture of 2,738,777 net tons of coke valued at \$4,792,859.75 and furnishing employment to 4,172 persons..

Improvements.—The improvements during the year were many and of a substantial character, including 32 new coal plants, 33 power plants, 1,413 coke ovens, 31 mine fans, 13 furnaces, 47 tipples and 22 additional openings, at old mines.

This year chronicles the opening of a new coal field along the waters of Coal River, notably on Brier Creek where during the year four mines have been opened and coal shipments begun in the Black Band bed, presumed to be a branch of the Winifrede (Upper Kittanning) coal.

Consolidations and Large Producers.—There have been no consolidations of importance during the year, but it is worthy of note that the Berwind-White coal interests have acquired the mines in Fayette County, formerly operated by W. P. Rend and operate the mines under the name, New River & Pocahontas Consolidated Coal Company. Allied interests have acquired large boundaries of New River and Pocahontas coal which in the future will become an important factor in coal production.

The following 31 companies each produced over 200,000 tons of coal during the year:

Fairmont Coal Co.....	3,848,209
Davis Coal & Coke Co.....	1,564,225
The Pocahontas Consolidated Co.....	1,199,649 ✓
Kanawha & Hocking Coal & Coke Co.....	772,544
The New River Smokeless Coal Co.....	675,341 ✓
United States Coal & Coke Co.....	660,777
Clarksburg Fuel Co.....	531,613
Red Jacket Consolidated Coal & Coke Co.....	450,925
McKell Coal & Coke Co.....	402,847 ✓
Pittsburg & Fairmont Fuel Co.....	361,330
New River & Pocahontas Consolidated Coal Co.....	357,107 ✓
Collins Colliery Co.....	329,478 ✓
Thacker Coal & Coke Co.....	329,189
American Coal Co.....	327,156
Turkey Gap Coal & Coke Co.....	321,799
Mill Creek Coal & Coke Co.....	311,798
The White Oak Fuel Co.....	302,249
Boomer Coal & Coke Co.....	286,735
Davis Colliery Co.....	278,546
The Empire Coal & Coke Co.....	273,198
Houston Coal & Coke Co.....	269,875
Southern Coal & Transportation Co.....	269,177
Ashland Coal & Coke Co.....	261,518
Georges Creek Coal & Iron Co.....	244,647
The Gauley Mountain Coal Co.....	239,533
Pulaski Iron Co.....	235,790
McDowell Coal & Coke Co.....	233,776
Elkhorn Coal & Coke Co.....	227,743
Crozer Coal & Coke Co.....	223,827
Hitchman Coal & Coke Co.....	213,848
Tidewater Coal & Coke Co.....	205,293
Total.....	16,209,751

In addition to the above there are 54 companies each of which produced over 100,000 and less than 200,000 tons, and 52 companies each of which produced between 50,000 and 100,000 tons.

Men Employed.—The total number of men employed at the mines and

coke ovens was 49,950, an increase of 4,458 over the previous year. Of the total number employed less than half, or 19,602, were pick miners; 8,233 machine miners; 2,004 machine operators and helpers; 10,064 inside laborers; 5,875 coke workers and 4,172 outside employees.

Wages.—The average wages received for pick mined coal was 47 cents per gross ton, run-of-mine, which is two and one-half cents less than during the previous year.

Each pick miner averaged a production of 1,071.7 tons during the year, or 92 tons greater than during the previous year.

The average yearly wages received per pick miner were \$508.01.

For machine mined coal the average prices paid in the State were as shown in the table which follows:

Machine miners paid per day.....	\$1.92½
Machine miners paid per ton run-of-mine in rooms.....	.28
Machine miners paid per ton run-of-mine in headings.....	.35
Machine miners paid per ton screened in rooms.....	.48
Machine miners paid per ton screened in headings.....	.49½
Machine runners paid per day.....	2.36
Machine runners paid per ton run-of-mine in rooms.....	.67
Machine runners paid per ton run-of-mine in headings.....	.69½
Machine runners paid per foot in rooms.....	.65
Machine runners paid per foot in headings.....	.68
Machine runners paid per ton screened.....	.11
Machine runners paid per hour.....	.18½

(The ton used in the above table is gross.)

Selling Prices.—The average selling price at the mine of all coal shipped per gross ton of run-of-mine was 97 cents, a decrease of 8 cents compared with 1904.

Coke sold at the ovens for \$1.75 per ton of 2,000 pounds, a decrease of 8½ cents under the previous year.

Strikes.—At 41 mines strikes were had during the year, involving 2,300 employes and a reported loss in wages of \$82,980.00 and to the operators a loss of \$49,370.00.

The strike of greatest moment was at the mines on Cabin Creek, in Kanawha County. This strike was declared in November, 1904, and the mines were unable to resume operation for several weeks, and then only with a small force. A disagreement on a clause of the Charleston Agreement of March 31st, 1904, was the occasion for declaring the strike. The question involved having reference to the hiring and discharging of men regardless of their being union or non-union men. The mines have since been operated with unorganized men.

Accidents.—During the year there were 194 lives lost by accident, 176 inside and 18 outside of the mines, and of the 176 inside 37 were lost in four accidents. Had these four accidents been avoided the death list at the mines would have been normal, as compared with previous years.

There was a total of 250 non-fatalities at the mines during the year, 222 inside and 28 outside of the mines.

For the past 22 years the average lives lost for each 1,000 men employed inside is 4.07 and for 1905 the loss is 4.41.

On February 26, 1905, at the Grapevine Shaft at Wilcoe, McDowell

County, an explosion of powder, dynamite and dust resulted in the death of seven men. A special report of this accident was made by the Chief Mine Inspector on May 27th, 1905, and printed for distribution, in which was also included a special report upon the accident at the Rush Run-Red Ash Mines, in Fayette County, which occurred on March 18-19, 1905, in which 24 men's lives were taken by an explosion of dust within the mines.

On March 7, 1905, four lives were lost at the No. 101 Mine at Shrewsbury, Kanawha County, belonging to the Kanawha & Hocking Coal & Coke Company, by reason of a chain breaking on the incline and permitting the loaded cars to run wild down the incline, the persons killed being on the cars, and failing to get off, rode the cars to the bottom of a very steep incline.

The practice of riding on inclines is dangerous, but many employes seem to be willing to risk their lives in violation of any rules or instructions prohibiting the practice.

At the Cabin Creek Mine at Kayford, Kanawha County, on April 20th, 1905, six men were killed by the explosion of powder and dust within the mine.

The unnecessary presence of excessive quantity of powder within the Grapevine Shaft and Kayford Mines was the primary cause of the explosions which resulted in the loss of 13 lives.

Had proper judgment and authority been exercised at Rush Run it is believed that the second explosion would have been averted and the rescuing party of 11 saved from death.

An examination of the table of causes of accidents reveals that nearly three-fourths of all inside fatal accidents are caused by falls of the roof and the least number by gas explosions. For each life lost by gas explosions 7.7 are lost by falls of roof.

Fatal Accidents Inside, Their Causes, Since 1897.

CAUSES	1897	1898	1899	1900	1901	1902	1903	1904	1905	Totals.
Falls of roof.....	47	67	64	61	76	79	93	95	105	690
Mine cars.....	6	6	7	11	11	13	12	12	18	96
Gas explosions.....		1		50	10		24	3	1	89
All other causes.....	7	2	8	11	24	18	15	13	52	150
Totals.....	60	76	79	133	121	110	147	123	176	1,025

Summary of the Accidents Inside of the Mines, 1905 and 1904.

(I means increase; D, decrease.)

	1905	1904	Changes
Number of employes inside.....	39,903	36,316	3,587 I
Number of days mines were operated.....	213	209	4 I
Number of persons killed inside.....	176	123	53 I
Number of days' work accomplished.....	8,439,339	7,590,044	849,295 I
Number killed per 1,000 employes, inside.....	4.41	3.38	1.03 I
Number killed per 1,000 days' work, inside.....	.0208	.0162	.0046 I
Number of persons injured non-fatally, inside.....	222	191	31 I
Number injured per 1,000 employes, inside.....	5.563	5.259	.0304 I
Number injured per 1,000 days' work, inside.....	.0263	.0251	.0012 I
Number of inside employes for each fatality.....	227	295	68 D

Electrocution.—During the year three lives were lost by contact with electric wires within the mines.

On September 7th, 1904, at the Thomas Shaft Mine (No. 34), in Tucker County, Joe McClosky took hold of a live wire to prevent himself from falling after having stumbled and was killed by the current.

On September 21, 1904, at the Kanawha Gas Mine, at Smithers, Fayette County, Booker Hutson, a driver, leaned against a wire and was killed by the current.

On September 29th 1904, at the Red Ash Mine, Fayette County, William Alexander was handling cars in the drift mouth and was cautioned not to touch the wires above him. He claimed there was no wire near him and raised both hands above his head and struck the wire, the current killing him instantly.

From 1899 to and including 1905 there have been 10 lives lost by electrocution within the mines, five of which have been within the Tucker County mines operated by the Davis Coal & Coke Co.

Legislation.—This Department recognizes the difficulty in securing any form of mining legislation, since it is impossible to frame a bill satisfactory to the mine employes and the operators that will be of any benefit in reducing the dangers encountered within the mines, since the parties concerned desire absolution from any responsibility. The main point of contention heretofore has been over the desire of the employes to attach to any form of mining bill a "fellow servant" clause, which immediately causes the mine operators to attack the merits of the proposed bill, with the result that the bill is defeated.

Previous to the convening of the next regular session of the Legislature another annual report will have been submitted, from this Department, when legislation may be discussed more in detail.

District Inspectors' Reports.—Following the statistical part of this report will be found the reports of the five district mine inspectors whose terms of appointment ceased July 1st, 1905, by the provisions of chapter 46 of the Acts of 1905, creating the "Department of Mines", and providing for seven mining districts within the State, and an inspector for each district.

These reports are commended to the careful reading of the mining fraternity.

In concluding this resume' of the report, the writer desires to acknowledge his appreciation of the fidelity of his co-workers, and to extend to his Excellency, the Governor, much gratitude for the confidence reposed in the head of the Department of Mines.

Respectfully submitted,

JAMES W. PAUL,

Chief Mine Inspector.

Charleston, December 14, 1905.

Succession of the principal coal beds in the State of West Virginia with names commonly used for their designation.

DUNKARD SERIES No. XVI.

The coals of this series have development only in the Northwestern section of the State and are not operated within the State on a commercial scale.

MONONGAHELA SERIES No. XV.

Waynesburg coal.

Uniontown coal.

Sewickley coal; also called Mapletown and Tyson.

Red Stone coal.

Pittsburg coal.

CONEMAUGH SERIES (ELK RIVER) No. XIV.

Elk Lick coal; also called Four Foot in Mineral County.

Crinoidal coal, Friendsville (Not over two feet thick.)

Bakerstown coal—Masontown and Four Foot in Preston County.

Mason coal—North Coalburg—Brush Creek in Preston County.

Mahoning coal—No. 5 Block on Kanawha River.

Black Flint Ledge, a key rock in Kanawha County.

ALLEGHENY—KANAWHA SERIES No. XIII.

Upper Freeport coal—Belmont, Stockton, Cannelton, Thomas, Savage, Lewiston.

Lower Freeport coal—Coalburg, Acme.

Upper Kittanning coal— Winifrede,
Kanawha, Black Band?

Middle Kittanning coal—Cedar Grove.

Lower Kittanning coal—	{	Davis	{	Peerless	{	Ansted
		Thacker		Blacksburg		Coal Valley
		Campbells Creek				Tunnel
						No. 2 Gas

Powellton coal—(Local development only.)

Clarion coal—Eagle, No. 1 Gas.

Brookville coal—Little Eagle.

POTTSVILLE—NEW RIVER—POCAHONTAS SERIES No. XII.

Sewell coal—Nuttall, New River Bed.

Welch coal—Dismal Creek, Tug River Smokeless.

Beckley—Raleigh, Upper Horsepen? White Stick.

Quinnimont coal—Fire Creek, New River.

Middle Horsepen coal.

War Creek coal.

No. 4 Pocahontas—Lower Horsepen?

Pocahontas No. 3—Flat Top.

About 100 to 488 feet to Mauch Chunk Red Shale, including two coals of little development.

NOTE—In Kanawha County some confusion is had relative to the Belmont and Lewiston coals. The type Lewiston is a coal lower in the measures than the Belmont.

STATISTICAL.

*Coal Tonnage of Several of the Leading Coal Producing States for the
Calendar Year 1904.*

Rank.	(Ton of 2,000 pounds.)	
1.	Pennsylvania, Anthracite	73,156,709
	Pennsylvania, Bituminous	97,952,267
2.	Illinois	36,475,060
3.	West Virginia	32,602,819
4.	Ohio	24,434,812
5.	Alabama	11,262,046
6.	Indiana	10,934,379
7.	Kentucky	7,566,482
8.	Colorado	6,658,355
9.	Iowa	6,519,933
10.	Kansas	6,333,307
11.	Wyoming	5,178,556
12.	Maryland	4,813,622
13.	Tennessee	4,782,211
Total		328,670,548
All other states		23,639,879
Total for United States		352,310,427
West Virginia for the year ending June 30th, 1905.....		35,283,392

THE FOLLOWING TABLE EXHIBITS A COMPARATIVE STATEMENT AND SUMMARY OF THE ANNUAL
REPORTS FOR 1905 AND 1904.

	For year ending June 30, 1905.	For year ending June 30, 1904	Increase of 1905 over 1904	Decrease of 1905 under 1904.
Number of counties in which coal is mined on a commercial scale.....	27	25	2	.....
Number of firms operating coal mines on a commercial scale.....	364	330	34	.....
Number of opening of all kinds subject to the mining law.....	696	620	67	.....
Number of tons (2,240 lbs.) of pick mined coal from commercial mines.....	21,007,248	18,407,023	2,510,225	.....
Number of tons (2,240 lbs.) of machine mined coal from commercial mines.....	10,313,781	8,317,682	1,996,089	.....
Total number of tons (2,240 lbs.) of coal from commercial mines.....	31,321,029	26,724,705	4,596,324	.....
Estimated tons of coal from small mines (tons of 2,240 lbs.).....	180,000	170,000	10,000	.....
Total number of tons of coal from all mines (2,240 lbs.).....	31,503,029	26,894,705	4,518,324	.....
Number of tons of coal converted into coke (2,000 lbs.).....	4,357,218	3,733,924	623,294	.....
Number of tons of coke manufactured (2,000 lbs.).....	2,738,777	2,276,451	462,326	.....
Total value of coal at the mines.....	\$ 30,557,438.13	\$ 28,353,450.75	\$ 2,223,987.38	.....
Total value of coke at the mines.....	\$ 4,792,859.75	\$ 4,177,787.50	\$ 615,072.25	.....
Value of a ton of coke at the mines (2,240 lbs.).....	1.75	1.05	.70	.08
Value of a ton of coke at the ovens (2,000 lbs.).....	1.158	1.88%	.....	.08%
Number of mining machines in use.....	10,254	8,536	1,718	.....
Average number of coke ovens in use.....	213	209	4	.....
Number of days the mines were in operation.....	248	222	26	.....
Number of pick miners employed in commercial coal mines.....	19,602	18,880	722	.....
Number of machine operators and miners employed in commercial coal mines.....	10,237	8,395	1,842	.....
Number of under-ground laborers in commercial coal mines.....	10,004	9,041	1,023	.....
Number of outside employees connected with the commercial coal mines.....	5,875	5,665	210	.....
Number of coke employees.....	4,172	3,511	661	.....
Total number of men employed at the commercial mines and ovens.....	43,460	45,452	4,458	.....
Number of men killed.....	194	140	54	.....
Number of men injured non-fatally.....	250	211	39	.....
Number of men employed for each man killed.....	257	335	68	.....
Number of men employed for each man injured.....	199	216	17	.....
Tons of coal mined in commercial mines for each fatality.....	161,459	191,534	30,075	.....
Tons of coal mined in commercial mines for each non-fatality.....	128,812	127,084	1,728	.....
Number of wives left widows.....	83	54	29	.....
Number of children left fatherless.....	169	12	157	.....
Acres of coal worked out.....	4,093.82	3,967.86	723.96	.....
Number of tons of coal produced (in commercial mines) per miner, pick and machine miners and runners included.....	1,049	983	66	.....
Average earnings of each miner per year.....	\$ 508.01	\$ 484.96	\$ 23.05	.....
Average earnings of each miner per month.....	42.17	40.41	1.76	.....
Average price per ton of 2,240 lbs. for mining run-of-mine coal (cents).....	47	49%	.....	2%

TABLE SHOWING PRODUCTION OF COAL AND COKE FOR
THE YEARS 1883 TO 1905, INCLUSIVE.

*YEARS	Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)	YEARS.	Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)	YEARS.	Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)
1883....	2,805,565	190,889	1893....	9,758,991	1,090,909	1903....	22,913,698	2,483,376
1884....	3,000,000	182,000	1894....	9,427,028	1,067,156	1904....	26,984,715	2,276,451
1885....	3,008,091	187,619	1895....	9,878,099	1,204,657	1905....	31,503,029	2,738,777
1886....	3,213,093	228,623	1896....	12,062,468	1,594,691			
1887....	4,207,039	481,477	1897....	11,705,829	1,374,497			
1888....	4,799,611	517,317	1898....	14,294,865	1,742,256			
1889....	4,663,857	360,716	1899....	16,250,150	1,950,179			
1890....	5,643,946	892,490	1900....	18,886,911	2,496,107			
1891....	7,281,427	1,208,418	1901....	20,290,991	1,932,912			
1892....	7,777,570	1,333,439	1902....	23,359,083	2,249,744			

*Calendar years 1883 to 1887, inclusive. Since 1887 the coal and coke statistics have been given for the fiscal years ending June 30th.

TABLE SHOWING THE COKE PRODUCTION, BY COUNTIES,
FROM 1897 TO 1905, INCLUSIVE.

(Tons of 2,000 lbs.)

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905
Barbour....		1,350	5,980	12,579	12,666	15,682	20,991	19,128	11,967
Fayette....	329,089	394,052	454,999	481,699	442,411	515,398	437,000	434,919	430,163
Harrison....		5,419	5,871	15,994	5,190	16,572	62,382	621	
Kanawha....	20,132	21,578	10,983	32,665	30,722	29,722	25,789	9,547	19,993
Marion....	142,043	149,060	155,985	298,119	118,285	210,451	282,924	102,416	127,850
McDowell....	567,070	731,681	923,166	1,070,033	953,702	929,433	1,016,988	1,170,200	1,580,805
Mercer....	115,522	149,061	192,932	207,277	167,769	175,083	167,567	190,132	267,697
Monongalia....	2,778	12,337	5,204	17,077	5,777	19,948	30,509	22,999	42,802
Preston....	19,567	28,450	34,023	46,250	6,500	18,930	34,627	27,611	79,757
Raleigh....	18,454	20,007	20,398	15,460					
Randolph....				3,223	13,498	38,845	120,387	77,077	146,243
Tucker....	159,842	229,261	140,638	295,731	176,392	279,680	284,122	221,801	231,500
Totals....	1,374,497	1,742,256	1,950,179	2,496,107	1,932,912	2,249,744	2,483,376	2,276,451	2,738,777

ORDER IN THE PRODUCTION OF COKE.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905
McDowell....	1	1	1	1	1	1	1	1	1
Fayette....	2	2	2	2	2	2	2	2	2
Tucker....	3	3	5	4	3	3	3	3	4
Marion....	4	5	4	3	5	4	4	5	6
Mercer....	5	4	3	5	4	5	5	4	3
Kanawha....	6	7	8	7	6	7	10	10	9
Preston....	7	6	6	6	9	9	8	7	7
Randolph....				12	7	6	6	6	5
Raleigh....	8	8	7	10					
Monongalia....	9	9	11	8	11	8	9	8	8
Harrison....		10	10	9	10	10	7	11	
Barbour....		11	9	11	8	11	11	9	10

TABLE SHOWING THE COAL PRODUCTION, BY COUNTIES, FROM 1888 TO 1905, INCLUSIVE.

(Tons of 2,240 lbs.)

COUNTIES.	1888	1889	1890	1891	1892	1893	1894	1895	1896
Barbour	.....	.....	.....	.....	.....	.....	7,736	.....	.....
Brooke	17,108	19,203	32,857	33,999	35,046	29,375	32,445	30,013	49,623
Fayette	1,522,430	989,276	1,302,355	1,737,617	1,564,579	2,330,230	1,156,102	2,162,060	3,253,547
Harrison	113,630	111,440	128,964	113,208	142,960	248,069	273,297	204,442	153,772
Kanawha	982,310	976,396	1,021,385	1,209,386	1,176,371	1,210,749	1,143,626	1,078,253	1,088,737
Logan	.....	.....	.....	.....	.....	.....	52,673	40,610	.....
Marion	253,675	245,899	406,900	722,594	903,896	958,296	1,186,542	1,198,336	1,219,017
Marshall	39,172	84,606	110,418	118,242	166,893	110,530	84,037	137,762	148,128
Mason	86,870	126,797	129,744	116,598	123,323	141,101	92,764	171,074	101,448
McDowell	.....	245,760	504,222	704,871	1,100,882	1,876,838	2,340,581	2,440,551	2,838,013
Mercer	762,645	744,803	744,403	1,210,723	1,175,141	1,196,574	886,942	865,379	1,308,417
Mineral	408,618	433,365	512,217	623,067	473,862	557,488	489,808	614,780	554,492
Mingo	.....	.....	.....	.....	.....	.....	.....	95,279	111,800
Monongalia	.....	6,850	28,000	46,100	70,062	97,905	62,125	47,663	52,080
Ohio	137,978	159,664	92,487	80,738	82,534	48,981	49,821	88,691	122,103
Preston	147,290	134,925	159,320	134,467	82,089	105,618	39,936	52,385	116,361
Putnam	135,100	107,325	183,134	156,856	154,662	197,733	148,474	122,057	161,555
Raleigh	.....	.....	.....	.....	.....	.....	48,365	84,762	89,279
Randolph	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taylor	66,439	177,901	68,403	83,851	74,000	68,928	72,229	86,536	43,469
Tucker	.....	79,647	219,087	189,030	396,320	538,950	418,805	316,345	523,624
Wayne	48,256	.....	.....	.....	55,320	21,839	40,720	21,101	2,000
Small mines	.....	.....	.....	.....	.....	.....	.....	.....	125,000
Totals	4,799,611	4,663,857	5,643,946	7,281,427	7,777,570	9,758,991	9,427,028	9,878,069	12,062,468

TABLE SHOWING THE COAL PRODUCTION, BY COUNTIES, FROM 1888 TO 1905, INCLUSIVE.—Continued.
(Tons of 2,240 lbs.)

COUNTIES.	1887	1888	1889	1900	1901	1902	1903	1904	1905
Barbour.....	31,658	48,000	63,275	73,041	226,047	394,768	525,924	690,897	556,158
Brooke.....	42,198	56,793	63,176	61,306	65,904	55,857	24,266	37,804	183,803
Clay.....	2,963,061	3,960,266	4,446,469	4,547,002	5,375,702	5,724,882	4,075,324	5,650,217	60,455
Fayette.....	33,838	42,870	39,440	47,013	30,357	38,685	28,489	113,969	6,738,343
Grant.....	221,249	271,554	413,150	647,430	1,098,715	1,062,144	2,108,326	199,700	167,053
Hancock.....	1,042,745	1,213,116	1,266,068	1,456,880	1,727,115	1,863,866	1,878,732	2,445,202	2,560,903
Harrison.....						12,063	53,350	2,732,078	3,126,638
Kanawha.....								31,744	7,685
Lincoln.....									127,616
Logan.....									3,251,969
Marton.....	1,308,682	1,639,625	2,392,983	2,925,907	2,674,553	3,172,194	2,668,914	2,785,350	380,666
Marshall.....	162,386	165,874	233,800	242,176	199,633	201,179	279,276	345,273	77,846
Mason.....	111,535	109,204	106,867	85,367	98,427	113,527	102,282	89,009	6,810,730
McDowell.....	2,617,917	3,183,529	3,516,668	4,142,102	4,219,251	4,734,199	5,249,913	5,524,376	1,738,330
Mercer.....	873,300	1,004,379	1,144,258	1,046,937	1,052,153	1,104,523	1,274,003	1,274,003	1,375,253
Mingo.....	537,169	510,757	554,286	562,667	513,772	552,181	514,582	467,613	1,375,253
Miner.....	297,789	383,289	350,294	466,695	501,410	635,113	864,464	1,153,013	178,752
Monongalia.....	31,288	68,867	56,793	82,148	75,589	130,371	148,074	139,540	51,524
Nicholas.....						12,199	7,645	25,723	91,752
Ohio.....	95,578	96,912	119,960	96,610	115,830	148,852	129,888	101,207	631,122
Preston.....	120,211	169,044	277,173	403,610	434,713	449,528	574,741	689,139	310,576
Putnam.....	131,522	128,851	164,004	263,449	125,321	208,712	178,904	295,914	681,180
Raleigh.....	63,701	79,315	93,370	68,360	102,089	272,106	244,088	406,226	416,834
Randolph.....			31,975	103,207	167,883	265,687	388,487	356,531	252,161
Taylor.....	178,367	190,532	249,103	376,030	383,223	415,562	264,524	234,502	961,293
Tucker.....	647,666	831,497	490,038	1,098,874	938,304	1,011,435	1,078,997	1,037,758	21,165
Wayne.....									180,000
Small mines.....	133,920	140,000	150,000	150,000	175,000	180,000	180,000	170,000	31,503,029
Totals.....	11,705,829	14,294,865	16,250,150	18,886,911	20,290,991	23,359,083	22,913,698	26,984,715	

ORDER IN THE PRODUCTION OF COAL.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905
Fayette.....	1	1	1	1	1	1	2	1	2
McDowell.....	2	2	2	2	2	2	1	2	1
Marion.....	3	3	3	3	3	3	3	4	3
Kanawha.....	4	4	4	4	4	4	5	3	4
Mercer.....	5	5	5	6	6	6	6	6	6
Tucker.....	6	6	7	5	7	7	7	8	8
Harrison.....	9	9	8	7	5	5	4	5	5
Mineral.....	7	7	6	8	8	9	11	11	12
Mingo.....	8	8	9	9	9	8	8	7	7
Preston.....	13	11	10	10	10	10	9	10	10
Taylor.....	10	10	11	11	11	11	14	16	16
Marshall.....	11	12	12	12	13	16	13	14	14
Randolph.....				14	14	14	12	13	13
Putnam.....	12	13	13	13	15	15	16	15	15
Raleigh.....	16	16	16	19	17	13	15	12	9
Barbour.....	19	19	17	18	12	12	10	9	11
Ohio.....	15	15	14	15	16	17	18	19	21
Mason.....	14	14	15	16	18	19	19	20	22
Monongalia.....	20	17	19	17	19	18	17	17	18
Brooke.....	17	18	18	20	20	20	23	22	17
Hancock.....	18	20	20	21	21	21	20	21	24
Lincoln.....						23	21	23	27
Grant.....							22	18	19
Nicholas.....						22	24	24	25
Clay.....								25	23
Logan.....									20
Wayne.....									26

TABLE SHOWING THE COMPARATIVE STATEMENTS OF
THE COAL PRODUCTIONS FOR 1904 AND 1905.

(Tons of 2,240 lbs.)

COUNTY.	1905	1904	Increase of 1905 over 1904.	Decrease of 1905 under 1904.
Brooke.....	183,803	37,804	145,999	
Hancock.....	58,029	69,700		11,671
Harrison.....	2,560,905	2,445,202	115,703	
Marion.....	3,251,999	2,785,350	466,649	
Monongalia.....	178,752	194,540		15,788
Marshall.....	380,666	345,273	35,393	
Ohio.....	91,752	101,207		9,455
Clay.....	60,455	2,860	57,595	
Kanawha.....	3,126,638	2,792,078	334,560	
Lincoln.....	7,695	31,744		24,049
Mason.....	77,846	89,009		11,163
Putnam.....	310,576	295,914	14,662	
Fayette.....	6,738,343	5,650,217	1,088,126	
Nicholas.....	51,524	25,723	25,801	
Raleigh.....	661,180	406,226	254,954	
Logan.....	127,616		127,616	
McDowell.....	6,810,730	5,524,376	1,286,354	
Mercer.....	1,738,330	1,274,070	464,260	
Mingo.....	1,375,233	1,153,013	222,220	
Wayne.....	21,165		21,165	
Barbour.....	556,158	690,897		134,739
Grant.....	167,053	113,869	53,084	
Mineral.....	505,171	467,613	37,558	
Preston.....	651,122	689,139		38,017
Randolph.....	416,834	356,531	60,303	
Taylor.....	252,161	234,502	17,659	
Tucker.....	961,293	1,037,758		76,465
Totals.....	31,323,029	26,814,715	4,829,661	321,347
Small Mines.....	180,000	170,000	10,000	
Grand Totals.....	31,503,029	26,984,715	4,839,661	321,347

ORDER IN THE PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30, 1905.

DISTRICT.	COUNTY.	No. of Mines Pro- ducing Coal.	Production Coal (Tons of 2,240 lbs.)			Production Coke (Tons of 2,000 lbs)			Order in Production	
			1st 6 Mos.	2nd 6 Mos.	Total coal produced for year.	1st 6 Mos.	2nd 6 Mos.	Total for the year.	Coal.	Coke.
First.....	Brooke.....	4	79,455	104,348	183,803				17	.....
First.....	Hancock.....	4	38,759	19,270	58,029				24	.....
First.....	Harrison.....	43	1,345,489	1,215,416	2,560,905				5	.....
First.....	Marion.....	24	1,700,290	1,551,739	3,251,999				3	6
First.....	Monongalia.....	5	85,676	93,076	178,752		78,518	127,850	8	.....
First.....	Marshall.....	6	201,125	179,541	380,666		26,671	42,802	18	8
First.....	Ohio.....	7	48,195	43,557	91,752				14	.....
Second.....	Clay.....	4	24,546	35,909	60,455				21	.....
Second.....	Kanawha.....	101	1,489,010	1,637,628	3,126,638		1,987	19,963	23	.....
Second.....	Lincoln.....	2	4,002	3,663	7,665				4	9
Second.....	Mason.....	9	37,950	39,866	77,816				27	.....
Second.....	Putnam.....	8	124,653	185,923	310,576				22	.....
Third.....	Fayette.....	123	3,369,941	3,368,402	6,738,343		156,140	430,163	15	.....
Third.....	Nicholas.....	7	26,269	25,255	51,524				2	2
Third.....	Raleigh.....	22	304,959	356,221	661,180				25	.....
Fourth.....	Logan.....	6	812	126,804	127,616				9	.....
Fourth.....	McDowell.....	74	3,105,547	3,705,183	6,810,730		536,152	1,380,805	20	1
Fourth.....	Mercer.....	25	822,637	915,693	1,738,330		80,747	267,607	1	3
Fourth.....	Mingo.....	40	640,446	734,787	1,375,233				6	.....
Fourth.....	Wayne.....	1	11,545	9,690	21,235				7	.....
Fifth.....	Barbour.....	14	257,580	298,578	556,158		1,293	11,967	26	.....
Fifth.....	Grant.....	3	27,648	89,465	167,053				11	10
Fifth.....	Mineral.....	13	297,669	247,562	545,231				19	.....
Fifth.....	Preston.....	21	252,604	398,518	651,122				12	.....
Fifth.....	Randolph.....	6	166,753	250,061	416,814		28,902	79,757	10	7
Fifth.....	Taylor.....	6	114,920	137,241	252,161		42,564	103,679	13	5
Fifth.....	Tucker.....	10	488,930	472,363	961,293		115,068	231,500	16	.....
Totals.....	Small mines.....	588	15,077,380	16,245,649	31,323,029		1,028,357	2,738,777	.....	.....
Grand Totals.....		588	15,107,380	16,335,649	31,503,029		1,028,357	2,738,777	.....	.....

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905.

DISTRICT.	COUNTY.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Quantity Shipped from Mine.		Production of Coke (Tons of 2,000 lbs.)		Acres of Coal Worked Out.
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.			1st 6 Mos.	2nd 6 Mos.	
First	Brooke	79,455	104,348	183,803	400	1,045	.....	182,349	.....	.....	.....	33.13
First	Hancock	38,750	19,270	58,020	702	3,550	.....	53,768	.....	.....	.....	13.61
First	Harrison	1,345,480	1,215,416	2,560,905	29,679	7,820	.....	2,523,406	.....	.....	.....	301.42
First	Marion	1,700,260	1,553,739	3,254,000	47,779	14,675	.....	2,991,635	.....	.....	.....	376.94
First	Montgomery	83,676	93,076	176,752	6,383	1,707	.....	112,046	.....	.....	.....	28.83
First	Marshall	201,125	173,941	375,066	67,854	8,445	.....	304,637	.....	.....	.....	57.20
First	Ohio	48,193	43,551	91,744	8,134	15,232	.....	67,586	.....	.....	.....	14.42
Second	Clay	24,546	35,909	60,455	625	431	.....	59,341	.....	.....	.....	11.81
Second	Kanawha	1,489,010	1,637,628	3,126,638	42,647	46,057	.....	3,008,896	.....	.....	.....	538.23
Second	Lincoln	3,002	3,693	7,695	89	.....	.....	7,606	.....	.....	.....	36
Second	Mason	37,950	39,896	77,846	536	37,664	.....	39,610	.....	.....	.....	14.63
Second	Putnam	124,653	185,923	310,576	2,264	9,915	.....	298,397	.....	.....	.....	46.07
Third	Payette	3,369,941	3,368,402	6,738,343	110,249	80,448	.....	5,911,044	.....	.....	.....	1,205.17
Third	Nicholas	26,269	25,255	51,524	948	1,255	.....	49,323	.....	.....	.....	9.95
Third	Raleigh	304,959	356,221	661,180	10,789	6,197	.....	644,194	.....	.....	.....	17.75
Fourth	Logan	812	126,804	127,616	2,302	263	.....	125,051	.....	.....	.....	17.75
Fourth	McDowell	3,105,547	3,705,183	6,810,730	79,614	51,290	.....	4,764,993	.....	.....	.....	935.38
Fourth	Marcer	822,637	915,693	1,738,330	17,808	13,149	.....	1,315,627	.....	.....	.....	256.02
Fourth	Mingo	640,446	734,787	1,375,233	14,223	52,965	.....	1,308,015	.....	.....	.....	207.44
Fourth	Wayne	11,545	9,620	21,165	.....	772	.....	20,393	.....	.....	.....	5.04
Fifth	Barbour	257,580	298,578	556,158	10,771	3,858	.....	525,956	.....	.....	.....	71.12
Fifth	Grant	167,649	89,405	257,053	9,675	449	.....	156,629	.....	.....	.....	29.49
Fifth	Mineral	257,689	247,502	505,171	652	2,506	.....	502,013	.....	.....	.....	60.38
Fifth	Preston	252,604	308,518	561,122	17,149	6,580	.....	511,073	.....	.....	.....	118.80
Fifth	Randolph	196,753	250,081	446,834	6,316	3,389	.....	216,246	.....	.....	.....	42.79
Fifth	Taylor	114,920	137,241	252,161	1,642	1,058	.....	249,461	.....	.....	.....	25.50
Fifth	Tucker	488,930	472,363	961,293	21,794	7,893	.....	591,833	.....	.....	.....	144.69
Totals	Totals	15,077,380	16,245,649	31,323,029	512,089	378,522	.....	26,542,044	.....	.....	.....	4,691.82
	Small Mines	90,000	90,000	180,000	.....	.....	.....	180,000	.....	.....	.....	.....
1905 Grand totals	1905 Grand totals	15,167,380	16,335,649	31,503,029	512,089	378,522	.....	26,722,044	.....	.....	.....	4,691.82
1904 Grand totals	1904 Grand totals	13,194,636	13,790,079	26,984,715	327,422	400,858	.....	22,922,574	.....	.....	.....	3,907.86
Changes	Changes	+ 1,972,744	+ 2,545,570	+ 4,518,314	+ 184,667	+ 22,336	.....	+ 556,513	.....	.....	.....	+ 723.96

+Plus. *Minus.

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs)			Coal Distribution (Tons of 2,240 lbs)			Production of Coke (Tons of 2,000 lbs)					
		1st 6 Mos.	2nd 6 Mos.	Total coal Produced for year.	Used in operation of mine	Furnished local trade and tenants.	Used in coke ovens.	Quantity Shipped from mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.		
<i>Brooke County.</i>													
The La Belle Coal Co.	Lewis	16,446	20,268	36,714	.....	1,000	.....	35,714	.....	.....	.....
Beech Bottom Coal Co.	No. 1.	11,943	17,570	29,513	19	45	.....	29,449	.....	.....	.....
Lewis-Findley Coal Co.	Locust Grove.	33,482	33,482	66,964	34	.....	.....	66,930	.....	.....	.....
La Belle Iron Works.	La Belle.	17,584	33,028	50,612	356	.....	.....	50,256	.....	.....	.....
Totals.....		79,455	104,348	183,803	409	1,045	.....	182,349	.....	.....	.....
<i>Hancock County.</i>													
M. M. Cullen.....	Porter No. 1.	2,857	714	3,571	35	3,536	.....	.....	.....	.....	.....
The Marquet Coal Co.	Nos. 1, 2 and 3.	35,902	18,556	54,458	607	23	.....	53,768	.....	.....	.....
Totals.....		38,759	19,270	58,029	702	3,559	.....	53,768	.....	.....	.....
<i>Harrison County.</i>													
Clarksburg Fuel Co.	Pinnicknick	94,705	98,311	193,016	2,875	1,170	.....	188,971	.....	.....	.....
"	Fall Run.	39,340	34,638	73,978	.....	11	.....	73,967	.....	.....	.....
"	Dixie.	13,690	15,185	28,884	339	62	.....	28,483	.....	.....	.....
"	Two Lick.	29,046	38,794	68,445	1,723	159	.....	66,503	.....	.....	.....
"	Interstate.	32,708	38,723	71,431	1,001	385	.....	70,045	.....	.....	.....
"	O'Neil Nos. 1 and 3.	26,855	41,079	68,534	1,156	439	.....	66,939	.....	.....	.....
"	O'Neil No. 2.	27,325	.....	27,325	423	.....	.....	26,902	.....	.....	.....
Fairmont Coal Co.	Enterprise	87,488	69,620	157,308	3,913	1,042	.....	152,353	.....	.....	.....
"	Viropia.	44,070	45,868	89,938	4	286	.....	79,646	.....	.....	.....
"	Enlen.	43,915	36,495	80,410	620	406	.....	79,384	.....	.....	.....
"	Solon.	38,277	29,532	67,829	645	4	.....	67,180	.....	.....	.....
"	Gypsy.	102,003	78,309	181,212	4,301	797	.....	175,824	.....	.....	.....
"	Meadowbrook.	40,755	31,149	71,904	696	488	.....	70,720	.....	.....	.....
"	Globe.	22,253	23,498	45,731	405	215	.....	45,111	.....	.....	.....
"	Dunham.	38,171	26,003	64,234	997	386	.....	62,841	.....	.....	.....
"	Lynch.	13,108	15,428	28,536	136	83	.....	28,400	.....	.....	.....
"	Reynoldsville.	13,845	10,490	24,775	355	83	.....	24,357	.....	.....	.....
"	Columbia.	61,142	56,275	117,417	1,417	296	.....	115,495	.....	.....	.....
"	Ocean.	75,653	58,479	134,132	1,483	302	.....	132,347	.....	.....	.....
"	Riverdale.	33,003	26,914	60,007	600	212	.....	59,195	.....	.....	.....
"	Perry.	63,282	56,847	120,129	.....	.....	.....	120,129	.....	.....	.....
Pittsburg & Fairmont Fuel Co.	Coaling Station.	17,878	21,672	39,550	.....	.....	.....	39,550	.....	.....	.....
"	Pooz.	72,572	65,003	137,575	1,465	121	.....	135,989	.....	.....	.....
"	Lucas.	28,348	35,728	64,076	.....	.....	.....	64,076	.....	.....	.....

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905.

COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Coal Distribution (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
<i>Monongalia County—Con.</i>											
Fairmont Coal Co.	Beechwood.....	40,797	37,391	78,188	427	136	4,762	72,863	47	3,154	3,201
West Virginia Coal Co.	No. 1.....	29,770	39,663	69,433	4,320	910	36,357	27,846	9,976	17,293	27,269
Decker's Creek C. & C. Co.	Decker's Creek.....	10,696	13,121	23,817	1,636	363	17,447	4,431	6,108	6,224	12,332
Niagara C. & C. Co.	Round Bottom.....	179	786	965		179		786			
Totals.....		85,676	93,076	178,752	6,383	1,707	58,566	112,066	16,131	23,671	42,802
<i>Marshall County.</i>											
Hitchman C. & C. Co.	Hitchman.....	114,056	99,792	213,848	1,786	2,053		210,009			
Boggs Run M. & Mfg. Co.	Boggs Run.....	26,865	20,205	47,070	535	5,668		40,867			
Wheeling Steel & Iron Co.	Benwood.....	34,624	28,261	62,885	462,885						
Glendale Coal Co.	Glendale.....	15,109	15,662	30,771	1,142	324		29,305			
Mound Coal Co.	Mound.....	10,471	15,221	25,692	1,506	400		24,186			
The Glen Easton C. & C. Co.	McConnell.....		400	400							
Totals.....		201,125	179,541	380,666	67,854	8,445		304,367			
<i>Ohio County.</i>											
Jochum & Co.	Central.....	1,964	2,054	4,018	44	3,974					
W. H. Kasley	Whitaker.....	5,982	1,700	7,682				7,682			
Richland Coal Co.	Richland.....	15,043	15,007	30,140		4,711		25,399			
The Elm Grove C. Co.	Elm Grove.....	13,863	18,467	32,330	1,812	1,160		29,358			
Reymann Brewing Co.	Manchester.....	3,504	3,560	7,064	7,064						
Wheeling Steam C. Co.	McKinley.....	3,161		5,161	214			4,947			
Peter Storeh & Son.	Storeh.....	2,678	2,679	5,357		5,357					
Totals.....		48,195	43,557	91,752	9,134	15,232		67,386			
<i>Clay County.</i>											
Dorfee Coal Mining Co.	Elk Manor.....	20,187	23,746	43,933	536	312		43,085			
Ohio Coal Mining Co.	Ohio.....	321	241	562	8	16		538			
Carter Coal Co.	Carter.....	3,565	7,011	10,516	8	133		10,375			
Gauley Consolidated C. Co.	Scott.....	533	4,911	5,444	71	30		5,343			
Totals.....		24,546	35,909	60,445	623	491		59,341			

*Used in operation of mill. †Used in operation of brewery.

Kanawha County.

Keystone Coal Co.....	2,232	4,560	2,232	44	44	2,144	.....
Falling Rock Cannel C. Co.....	4,569	11,031	9,089	88	88	8,893	.....
The Elk Coal Co.....	15,389	12,154	27,543	804	312	20,484	.....
Turner.....	1,786	178	1,964	36	36	26,427	.....
Lucas-Ray Coal Co.....	1,786	178	1,964	36	36	1,928	.....
Pen Mar Mining Co.....	5,102	1,930	6,432	.....	.....	6,416	.....
J. G. Vaughan.....	1,990	1,906	3,926	.....	.....	3,926	.....
Glendonin Coal Co.....	.....	1,061	1,661	.....	.....	1,661	.....
Mill Creek Cannel C. Co.....	3,856	2,755	6,611	306	216	6,089	.....
Campbell's Creek C. Co.....	2,776	.....	2,776	16	17	2,743	.....
Quincy Coal Co.....	45,529	92,913	138,442	3,175	5,022	130,245	.....
No. 1.....	11,101	13,616	24,717	330	111	24,276	.....
No. 2.....	3,867	6,774	10,641	362	624	9,652	.....
Black Diamond.....	6,000	6,000	12,000	108	240	11,652	.....
Kanawha & Hocking C. & C. Co.....	30,875	28,725	59,600	824	655	58,121	.....
No. 101.....	19,363	1,501	20,954	692	132	19,810	.....
Nos. 103 & 104.....	54,945	43,565	98,510	2,271	2,748	93,491	.....
No. 105.....	31,193	23,860	55,053	2,425	1,095	51,555	.....
No. 106.....	604	.....	604	10	.....	584	.....
No. 107.....	23,031	11,305	34,336	56	.....	34,280	.....
No. 109.....	13,041	12,505	25,546	.....	765	24,781	.....
No. 110.....	36,494	34,737	71,231	2,119	1,035	68,077	.....
Kelly's Creek Colliery Co.....	52,630	34,570	87,200	558	1,091	86,743	19,751
Cannelton Coal Co.....	.....	.....	.....	.....	.....	2,560	.....
The Marinet Coal Co.....	2,560	.....	2,560	.....	.....	93,756	.....
Butler.....	32,748	62,798	95,546	809	981	70,146	.....
Monarch.....	27,836	44,708	72,544	1,611	787	6,183	.....
Winifrede Coal Co.....	.....	.....	.....	.....	.....	76,874	.....
Winifrede Gas.....	919	5,353	6,272	89	.....	26,341	.....
Winifrede South.....	46,731	36,302	83,033	1,953	3,464	76,874	.....
Winifrede North.....	44,439	34,388	78,827	1,953	.....	36,386	.....
Winifrede West.....	14,709	13,357	28,065	977	748	16,016	.....
Ronda.....	18,329	18,951	37,280	325	589	62,455	.....
Acme.....	9,806	6,957	16,763	.....	747	26,341	.....
Keystone.....	28,645	35,222	63,867	1,116	296	62,455	.....
Empire.....	9,703	16,638	26,341	.....	.....	26,341	.....
Shamrock Coal Co.....	7,445	14,715	22,160	.....	.....	10,746	.....
Dry Branch Coal Co.....	4,959	7,054	12,013	.....	1,267	39,601	.....
Nos. 2 & 3.....	20,745	26,603	47,348	162	7,385	34,771	.....
Belleclare Coal Co.....	15,460	19,311	34,771	.....	.....	5,523	.....
Ruby.....	1,286	4,237	5,523	.....	.....	11,971	.....
Oakley.....	7,961	5,427	12,988	750	367	19,942	.....
Climax.....	9,985	10,849	20,834	714	178	21,881	.....
Horton Nos. 1 & 2.....	11,275	11,141	22,416	268	267	30,039	.....
Holly Coal Co.....	9,767	20,272	30,039	.....	.....	46,562	.....
Quarrier Coal Co.....	21,739	25,744	47,543	625	356	19,291	.....
Red Warrior Coal Co.....	3,614	15,959	19,603	.....	89	44,763	.....
Cherokee Coal Co.....	22,688	23,407	46,065	446	886	35,009	.....
Wake Forest Mining Co.....	18,834	16,621	35,455	284	446	39,489	.....
M. T. Davis C. Co.....	17,807	21,966	39,773	.....	.....	7,285	.....
Caledonian C. & C. Co.....	2,037	5,961	7,998	.....	178	.....	.....

* Estimated.

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905

NAME OF COMPANY.	NAME OF MINE.	Production Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)				
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in operation of mine.	Furnished local trade and tenants.	Used in coke ovens.	Quantity Shipped from mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
<i>Kanawha County—Continued</i>											
Thistle Coal Co.	Thistle.	8,094	27,367	35,461							35,461
La Mont Mining Co.	La Mont Nos. 1, 2 & 3.	4,732	8,928	13,660	490	143					13,027
Carbon Coal Co.	South.	38,787	39,006	77,793	1,607	714					75,472
Republic Coal Co.	North.	16,071	23,251	39,322		297					39,065
	East.	19,327	26,614	45,941	714						44,960
	West.	6,254	13,536	19,790							19,790
West Virginia Colliery Co.	No. 1.	38,478	51,400	89,878	892	1,000					88,046
	No. 2.	11,236	13,616	24,911							24,911
Raccoon Fork Coal Co.	Raccoon Fork.	14,826	14,654	29,480		443					28,437
United Colliery Co.	United Gas.	16,071	21,429	37,500	1,086	257					36,147
Cabin Creek Mining Co.	Cabin Creek Nos. 1 & 2	28,512	41,981	70,493	1,340	1,071					68,082
Robinson Coal Co.	Kiondike.	1,968	2,238	4,206	22	527					3,657
	No. 5.	16,949	18,883	35,832	44						35,788
Shenandoah C. & C. Co.	East Bank	7,409	7,242	14,651	142		250				14,171
Belmont Coal Co.	Coalburg & Lewiston.	13,551	27,457	41,008		200					40,808
Equitable Coal Co.	Coalburg & Kanawha.	25,310	24,240	49,550	1,618	835					47,097
The Pawnee Coal Co.	Black Cat	8,457	1,011	9,468	141	138					9,189
Scranton Splint Coal Co.	Scranton.	34,665	26,733	61,398		747					59,581
Paint Creek Coal Co.	Paint Creek.	23,289	27,042	50,331	1,070	34					49,227
Standard Splint & Gas C. Co.	Standard.	20,319	33,916	54,235	656	689					52,910
Grose Colliery Co.	Grose.	14,158	16,790	30,948	49	331					30,568
Imperial Colliery Co.	Imperial No. 1.	21,459	24,459	45,918	446	373					45,099
	Imperial No. 2.	16,284	17,461	33,745							33,745
Greenbrier Coal Co.	Gr b r No. 2 & Masters	15,552	19,771	35,323		441					34,882
Wacomah Coal Co.	Coalburg.	19,090	21,438	40,498	258	201					40,039
Detroit and Kanawha C. Co.	Detroit No. 1.	6,250	8,741	14,991	80	143					14,768
Morton Coal Co.	Morton No. 1.	19,620	17,065	36,685	500						36,186
	Morton No. 2.			268							268
Nuckolls C. & C. Co.	Nuckolls.	9,408	12,763	22,171		224					21,947
Banner Coal Co.	Coalburg & Crown Hill	10,218	17,727	27,945							27,945
Chesapeake Mining Co.	Chesapeake No. 1.	83,706	39,531	123,297	481	813					122,003
	Chesapeake No. 2.	11,385	15,955	27,340							27,340
	Kanawha.	21,689	22,966	44,605	300	700					43,605
Montgomery C. Co.	Black Band No. 1.	34,864	28,959	63,823	911	1,674					61,298
Black Band C. & C. Co.	Black Band No. 2.	9,032	16,379	25,411	195						25,216
" "	Black Band No. 3.	13,715	12,548	26,263							26,068
" "	Hughes No. 2.	12,800	23,061	35,861							35,861
Hughes Creek Coal Co.	Black Band.	893	3,571	4,464							4,464
Coal River Lumber & Coal Co.											

Reynolds Black Band C. Co.	Reynolds	2,792	2,792	17	2,775	18,056	19,963
American C. & C. Co.	American	230	1,579		1,579		
Morris Creek C. Co.	Morris Creek	16,518	30,810	982	29,828		
Totals		1,489,010	3,126,638	42,647	29,058	1,937	
<i>Lincoln County.</i>							
Rochester Coal Co.	Rochester	2,652	4,905	89	4,906		
Guyandotte Coal Co.	Guyandotte	1,350	2,700		2,700		
Totals		4,002	7,605	89	7,606		
<i>Mason County.</i>							
Hope Salt and Coal Co.	Hope	2,500	4,643	107	4,536		
Mason City M. Co.	McDaniel	2,000	4,643	36	4,607		
Liverpool Salt & Coal Co.	Jackson	8,571	17,142	16,892			
Hartford City Salt Co.	Hartford	4,373	6,494	10,867			
Consumers C. & M. Co.	New Castle & Camden	7,059	10,991	9,762	8,002		
Hanging Rock C. Co.	Klondike	7,590	15,180		15,180		
Beech Grove Coal Co.	Beech Grove	5,357	8,893		6,250		
Thos. D. Harris	Harris	500	1,071		1,071		
Totals		37,950	77,846	536	39,646		
<i>Putnam County.</i>							
Plymouth C. & M. Co.	Plymouth	25,374	59,808	1,698	56,738		
Manilla	Manilla	14,234	42,380		42,380		
The Otto Marmet C. & M. Co.	Pocahontas	12,194	30,450		30,450		
Black Betsey C. & M. Co.	Big Otto Nos. 1 & 2	25,304	57,439	1,925	50,865		
The Oak Forest C. & M. Co.	Black Betsey	43,008	86,016	1,340	83,872		
Alpha C. & M. Co.	Oak Forest	4,539	8,739	4,009	4,682		
Totals		124,653	310,576	9,915	298,397		
<i>Fayette County.</i>							
Hickory Camp C. & C. Co.	Hickory Camp No. 1	3,266	11,796	225	11,276		
Kanawha & Hocking C. & C. Co.	No. 111	40,038	89,439	802	72,572	9,653	9,853
"	No. 112	42,088	92,707	1,446	78,040	200	7,812
"	No. 113	55,051	102,193	1,008	68,010	2,379	23,343
"	No. 114	60,125	129,315	4,714	87,462	2,868	26,643
"	No. 115	34,793	64,297	482	40,301		
"	No. 117	50,520	124,712	802	61,021		
Columbus Iron & Steel Co.	No. 1	50,520	124,712	689	77,355	14,923	34,328
Kanawha Gas C. Co.	Kanawha Gas	51,785	116,061	1,964	114,097		
W. R. Johnson & Co.	Oakland	62,679	115,179	624	113,753		
Boomer C. & C. Co.	Boomer No. 1	52,655	67,361	886	65,823		
"	No. 2	52,690	139,634	446	138,698		
"	No. 3	71,274	79,740	490	78,804		

*Used at Salt works.

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th., 1905.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)		
		1st 6 Mos.	2nd 6 Mos.	Total coal produced for year.	Used in operation of mine.	Furnished local trade and tenants.	Used in coke ovens.	Quantity shipped mine.	1st 6 Mos.	2nd 6 Mos.
<i>Fayette County—Continued.</i>										
Gordon C. & C. Co.	Eureka No. 1.	2,540	2,691	5,231	.....	.....	.....	5,231	.....	.....
"	" No. 2.	7,493	15,772	23,638	.....	.....	.....	23,638	.....	.....
"	" No. 5.	25,375	17,049	42,384	1,070	886	.....	40,428	1,749	8,914
St. Clair Colliery Co.	No. 1.	14,846	14,846	29,692	223	67	18,417	19,772	.....	10,663
"	No. 2.	11,266	9,442	20,708	624	312	.....	35,433	.....	.....
The Carver Bros. Co.	Mecca Block	19,153	17,348	36,501	711	357	.....	28,860	.....	.....
"	"	17,624	11,236	28,860	.....	.....	.....	59,405	2,760	2,760
"	No. 2 & 3.	29,351	33,151	62,502	.....	.....	3,697	17,945	1,730	1,730
"	Eagle, Cal., No. 1.	10,665	13,102	23,767	2,166	1,339	2,317	21,617	.....	.....
"	No. 5.	14,175	7,442	21,617	.....	.....	.....	36,711	.....	.....
Economy Fuel Co.	Economy	17,715	21,305	39,020	490	1,819	.....	1,963	1,690	1,690
W. R. Johnson.	Eagle No. 1.	1,100	3,307	4,407	.....	.....	2,414	11,999	874	874
"	Gas No. 2.	6,488	6,760	13,248	.....	.....	1,249	40,675	.....	.....
"	No. 5 Splint.	24,530	19,091	43,621	1,696	1,339	.....	16,885	8,281	19,204
The Mt. Carbon Co. Ltd.	Vulcan	28,833	33,331	62,164	471	1,949	42,859	10,417	4,265	3,001
"	South.	9,509	12,829	21,887	.....	.....	11,470	8,259	.....	7,266
"	Excelsior	7,509	2,000	9,509	.....	.....	1,340	17,402	79	6,800
The Gt. Kanawha Co. L't'd	Brewster	12,441	18,302	30,743	1,786	1,059	10,496	6,434	.....	6,879
"	Edwards.	2,532	3,902	6,434	.....	.....	.....	7,371	.....	.....
"	Rhinalas	2,083	5,288	7,371	.....	.....	.....	8,701	.....	.....
"	No. 5.	7,618	1,083	8,701	.....	.....	.....	56,511	.....	.....
Cardiff Coal Co.	Kimberly Nos. 1 & 2.	32,864	25,241	58,105	1,070	524	.....	28,510	.....	.....
"	Columbia	14,593	14,165	28,758	.....	248	.....	16,801	.....	.....
"	Elk Ridge Nos. 1 & 2	1,733	15,776	17,509	535	173	.....	181,900	13,400	22,656
The Gauley Mountain C. Co.	Gauley Mountain.	123,468	123,468	246,936	3,092	.....	54,481	10,069	.....	36,062
Newcastle Coal Co.	Gaymont	116,067	10,201	126,268	57	.....	.....	19,959	.....	.....
Isabel C. & C. Co.	Elmo	8,692	13,982	22,534	2,385	240	.....	11,671	207	1,813
"	Sunnyside	7,613	8,510	16,123	.....	.....	4,267	16,690	.....	2,020
"	Diamond	10,873	13,298	24,171	.....	.....	.....	22,352	.....	.....
Michigan	Michigan	13,359	13,854	27,213	380	640	.....	28,453	.....	.....
The Fayette C. & C. Co.	Fayette.	9,840	12,692	22,532	.....	.....	.....	56,597	.....	.....
Low Moor Iron Co., of Va.	Kay Moor No. 1	54,610	55,400	110,010	3,600	1,300	48,513	33,319	15,983	18,310
"	No. 2	8,959	13,330	24,289	120	850	.....	10,966	.....	34,283
Catact Colliery Co.	Whitney	5,978	4,989	10,966	.....	.....	.....	25,296	.....	.....
Manfiers & Consumers C. Co.	Newlyn	12,486	13,115	25,601	120	275	.....	36,170	1,371	1,371
Nuttallburg C. & C. Co.	Nuttallburg	18,650	20,217	38,867	225	350	2,122	28,270	.....	.....
"	Keeneys Creek	13,439	14,631	28,070	.....	300	.....	64,750	.....	.....
Brown Coal Co.	Brown	38,720	28,117	66,837	120	1,967	.....	.....	.....	.....

Boone C. & C. Co.	13,793	11,847	25,640	350	25,290
Balling Coal Co.	25,553	25,663	51,216	448	50,748
Balling No. 1.	6,546	6,172	12,718		12,718
Blume C. & C. Co.	37,615	35,189	72,804	800	71,704
Smokeless Coal Co.	31,222	24,723	55,945	800	55,145
Rothwell Coal Co.	19,079	18,587	37,666	250	37,116
Chapman Iron, C. & C. Co.	14,286	13,795	28,081	268	27,613
North Victoria.	33,928	33,450	67,378	1,062	66,822
South Victoria.	13,131	24,660	37,791	1,924	36,867
Elverton	7,382	7,004	14,386	650	13,736
Central	12,690	16,029	28,719	204	28,515
New River Smokeless C. Co.	25,637	24,142	49,779	472	49,307
Brooklyn	58,018	38,772	96,890	1,221	95,669
Red Ash	68,072	28,060	96,132	622	95,510
Brush Run	39,314	55,153	134,667	680	134,087
Sun Nos. 1 & 3.	66,186	57,425	123,611	1,750	121,861
Sun No. 2.	19,949	20,214	39,763	820	39,043
Fire Creek	28,535	32,745	61,286	100	61,186
Echo	22,445	38,044	60,509	100	60,409
The Thurmond Coal Co.	17,408	15,284	32,692	319	32,373
Erskine	28,551	31,458	60,009	10,208	49,801
Stone Cliff Coal & Coke Co.	28,855	28,979	57,834	649	57,185
The Beechwood C. & C. Co.	14,901	14,844	29,445	1,050	28,395
Beechwood No. 2.	27,652	25,653	53,315	200	53,115
Alaska C. & C. Co.	4,098	5,721	9,819	1,900	7,919
Ridgeview Coal Co.	70,465	58,587	129,052	100	128,952
Ephraim Creek C. & C. Co.	73,250	78,460	151,710	2,300	149,410
Harvey C. & C. Co.	58,000	72,608	130,608	1,080	129,528
Prudence	63,672	62,777	126,449	250	126,199
Star	170,983	168,504	339,487	1,345	338,142
Collins Nos. 1 & 2	35,280	25,235	60,493	1,495	59,008
Whipple	41,750	40,390	82,140	3,000	79,140
Derryhale	116,190	112,080	228,270		228,270
Killsyth	12,885	15,069	28,984	1,750	27,234
Laura	23,425	28,022	51,447	950	50,497
Dunlop No. 1	43,128	38,022	81,150	1,517	80,633
Dunlop No. 2		38,425	76,425	820	75,605
Newlyn		4,676	1,500		1,500
The Dungen Coal Co.	39,145	42,388	81,533	44	81,489
The Turkey Knob Coal Co.	79,350	74,684	154,034	806	153,228
The Macdonald Colliery Co.	67,052	62,865	129,915	1,067	128,848
Sugar Creek C. & C. Co.	72,784	80,453	153,237	1,935	151,302
The White Oak Fuel Co.	14,853	14,404	29,257	1,095	28,162
Wingrove	4,293	17,253	21,546	112	21,434
Carlsile	26,945	36,153	63,098	708	62,390
Oakwood	20,470	20,141	40,611	1,445	39,166
Parra Shaft	14,671	20,470	35,141	13	35,128
Beech Creek		1,394	1,394		1,394
Stuart	5,493	6,312	11,805	1,268	10,537
Stuart	6,257	16,698	22,955	280	22,675
Big Q & Lick Branch.	26,393	25,419	52,012	480	51,532
Quinnimont Coal Co.				1,190	

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th., 1905.

NAME OF COMPANY.	Production Coal (Tons of 2,240 lbs)		Distribution of Coal (Tons of 2,240 lbs)			Production of Coke (Tons of 2,000 lbs.)				
	1st 6 Mos.	2nd 6 Mos.	Total coal produced for year.	Used in operation of mine.	Furnished local trade and tenants.	Used in coke ovens.	Quantity Shipped from mine.	1st 6 Mos.	2nd 6 Mos.	Total for year.
Fayette County—Continued.										
Robins Coal Co.	8,547		8,547				8,547			
Glendale Colliery Co.	20,105	15,978	36,173				35,744			
Laurel Creek Coal Co.	19,261	16,407	35,668	300	300	429	35,008			
Greenwood Coal Co.	49,622	46,282	95,904	300	700	700	94,904			
Hemlock Hollow C. Co.	70,000	34,000	104,000		250		103,750			
New River & Pocahontas Cons. C. Co.										
do	21,564	17,014	38,578	314		3,259	35,005	872	950	1,825
do	54,706	50,345	105,051	4,529	550		99,972			
do	31,279	37,838	69,117	186			68,931			
do	33,215	38,693	71,908	186			71,173			
do	33,806	38,647	72,453		732		71,721			
Ganoca Coal Co.		4,864	7,655				7,655			
do	2,791	5,620	9,396				8,127			
do	3,776	5,620	9,396				8,127			
Deitz Colliery Co.	12,249	23,215	35,464	214		1,269	34,804			
Lynchburg Colliery Co.	16,646	19,000	35,646	240		356	35,050			
Totals.	3,369,841	3,368,402	6,738,343	110,249	80,448	635,602	5,912,044	156,140	274,023	430,163
Nicholas County.										
Bell Creek Coal Co.	3,018	3,296	6,314	88		70	6,156			
The Columbus Coal Co.	3,214	3,571	6,785		803		5,982			
The Gambria Mining Co.	6,140	3,873	10,013	251	221		9,538			
Mt. Carmel C. & C. Co.	8,031	4,344	12,375	322	52		12,001			
The National C. & C. Co.	2,800	3,429	6,228	16	22		6,200			
The Arminius Coal Co.	2,679	3,125	5,804	44	44		5,716			
The Gauley Co.	378	3,617	3,995	222	43		3,730			
Totals.	26,289	25,255	51,524	946	1,255		49,323			
Raleigh County.										
The New River Smokeless C. Co.	20,941	18,899	39,840	457	375		39,008			
do	27,817	28,783	56,600	972			55,236			
Raleigh C. & C. Co.	43,150	35,288	78,438	2,500	332		75,606			
do	46,068	39,123	85,191		1,995		83,196			
The Wright C. & C. Co.	29,348	31,682	61,030	960	1,200		58,870			
do	15,409	15,569	30,978		300		30,678			
Piney Colliery.	12,678	18,490	31,168	5,000			25,168			

PRODUCTION OF COAL AND COKE BY COUNTIES, FOR YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.		Coal Production (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)		Production of Coke (Tons of 2,000 lbs.)					
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
McDowell County—Continued	The Pocahontas Cons'd'd. Co.										
	"										
	"										
	"										
	Elkhorn C. & C. Co.	84,940	111,147	196,087	16,000	2,000	26,606	151,481	3,250	15,440	18,690
	Cirrus C. & C. Co.	19,940	78,741	98,681	1,600	3,000	30,909	63,172	1,400	20,490	21,890
	Big Sandy C. & C. Co.	12,765	42,127	54,892	200	200		12,365			
	Vaughan C. & C. Co.	32,073	118,908	150,975	3,000	2,000		69,342			
	Davy Crockett C. & C. Co.	108,835	227,743	336,578	1,800	1,687					
	Pocahontas C. M. Co.	14,431	20,317	34,748	1,127	225					
	Twin Branch M. Co.	29,927	44,725	74,652	1,200	3,500					
	Short Creek C. & C. Co.	8,052	10,489	18,541	379						
	Antler C. & C. Co.	9,633	11,751	21,384							
	Black Stone Consolidated C. Co.	26,000	31,063	57,063	1,200	3,000					
	United States C. & C. Co.	17,073	24,068	41,141	57	322					
	"	5,357	6,250	11,607							
	"	75,000	150,000	225,000							
	"	8,928	11,607	20,535							
	"	35,466	40,337	75,803							
	"	84,996	81,853	166,849	1,595	1,633	158,141	32,440	56,220	108,660	
	"	67,163	63,246	130,409	126	380	129,685	36,038	55,969	91,997	
	"	69,187	84,019	153,206	4,140	1,135	147,931	32,278	69,904	122,182	
"	36,910	44,968	81,878	184	50	81,642	19,802	31,109	51,911		
"	17,044	23,168	40,212	1,669	253	35,611	12,680	20,015	32,695		
"	34,375	53,848	88,223	71	410	62,468	25,274	43,966	74,981		
Mahe C. & C. Co.	6,741	11,890	18,631	58	187		18,326	23,960	20,858	44,818	
Flournoy Colliery Co.	4,247	5,267	9,514				9,354				
Hensley Coal Co.	9,149	12,951	22,100	160	320		21,620				
Mohawk C. & C. Co.	11,195	11,271	22,466	160	320		21,986				
Welch C. & C. Co.	22,068	15,943	38,611	1,000	1,000		36,611				
Oregon Coal Co.	14,036	15,890	29,886		200		16,487				
Zenith C. & C. Co.	19,500	33,452	52,952	381	400		29,486				
Page C. & C. Co.	21,591	35,907	57,498	1,000	165		52,304				
Middle States C. & C. Co.	752	6,331	7,083				56,333				
Helena Coal Co.	1,726	6,987	8,713				7,083				
Virginia Pocahontas C. Co.	7,808	11,772	19,640	100	250		8,713				
Totals.	3,105,547	3,705,183	6,810,730	79,614	51,200	1,914,863	536,153	844,652	1,380,805		

<i>Mercer County.</i>		Mill Creek.	61,126	72,360	133,486	806	61,633	70,425	19,088	43,145	62,233
		Mill Creek.	95,396	82,916	178,312	622	806	156,746	1,421	12,462	13,883
		Coaldale	66,687	74,845	141,532	737	933	107,589	9,103	11,488	20,561
		Buckeye C. & C. Co.	118,123	129,748	247,871	4,000	4,000	218,772	1,702	13,040	14,802
		The Pocahontas Cons. & I. d. Co.	19,275	90,367	19,275	500	1,000	16,756	636		636
		Sagamore.	80,347	90,367	170,810	300	1,239	130,795	9,357	14,690	24,047
		Booth-Bowen C. & C. Co.	46,241	51,340	49,581	750		74,187	2,934	13,402	16,336
		Louisville C. & C. Co.	38,389	40,339	78,658	1,250	337	59,847	5,432	7,025	12,477
		The Goodwill C. & C. Co.	59,028	95,025	154,063	3,602	1,424	91,701	11,895	24,235	36,130
		Pinnacle	69,027	104,066	173,093	2,988	1,284	114,984	9,545	21,672	31,217
		Crane Cr. Nos. 1 & 2	32,533	47,289	79,822	600	254	49,743	2,389	13,325	15,914
		Crystal	89,728	52,570	142,298	1,653	856	103,355	6,965	12,466	13,431
		Thomas Coal Co.	6,813	22,075	3,237			3,237			
		Yukon Coal Co.	6,813	22,075	28,888	106	178	28,604			
		Weyanoke C. & C. Co.	5,000	7,000	12,000	150	150	11,700			
		Spring C. M. Co.	8,561	5,457	14,018	104		13,914			
		Piedmont Colliery	7,878	22,606	22,606			22,606			
		Wenonah C. & C. Co.	14,728	21,190	21,190			21,190			
		Hiawatha C. & C. Co.	7,002	14,188	21,190			21,190			
		Nos. 1 & 2	7,942	12,254	12,254			12,254			
		The Smokeless C. & C. Co.	4,312	7,942	12,254			12,254			
		Smokeless	1,758	3,518	5,276	26	178	5,072			
		Cephas Coal Co.									
		Totals.....	822,637	915,693	1,738,330	17,868	13,149	1,315,627	80,747	186,950	207,697
<i>Mingo County.</i>		Linghocken.	983	983	983			983			
		Linghocken Coal Co.	2,928	2,928	5,233			4,742			
		Pearl Coal Mining Co.	2,305	1,975	4,884			4,489			
		Pearl	10,188	10,849	21,037			20,681			
		" " " "	2,984	3,018	6,002			5,461			
		Strigg	53,756	65,083	118,839			116,789			
		Haggerty	64,891	68,999	133,890			129,490			
		Rutherford.	22,341	22,341	28,671			27,871			
		Red Jacket.	55,428	53,175	108,603			107,403			
		" " " "	28,612	32,310	60,922			60,222			
		Lick Fork	27,765	19,336	42,101			41,301			
		Grapevine	57,738	84,115	141,853			140,853			
		Thacker No. 1.	43,142	51,359	94,501			90,501			
		" No. 2	3,946	3,875	7,821			7,621			
		" No. 3	20,277	22,636	42,913			42,413			
		" No. 10.	76,947	66,389	143,336			140,436			
		Lynn.	1,500	1,600	3,100			1,300			
		Glen Alum Coal Co.	87,688	91,608	179,296			176,082			
		Nolan Coal Co.	13,393	13,393	26,786			26,786			
		War Eagle Coal Co.	2,500	1,523	4,023			3,903			
		Hatfield Colliery Co.	14,000	14,000	28,000			27,400			
		Cutross Coal Co.	11,642	11,643	23,285			22,828			
		Mate Creek Coal Co.	8,554	12,231	20,805			20,671			
		Marvin Coal Co.									
		The Margaret M. Co.									

*Stacked.

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY	NAME OF MINE	Production Coal(Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year	Used in operation of mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st 6 Mos.	2nd 6 Mos.	Total for the Year
<i>Mingo County—Continued</i>											
H. A. Shaffer, Lessee.	Star.....	8,035	2,000	2,000		36		1,964			
Cedar Coal Co.	Cedar.....		8,035	16,071				16,071			
Merrimac C. & C. Co.	Cooling Station & Nos. 1 & 2.....	15,807	23,291	39,098							
Williamson C. & C. Co.	Williamson.....		250	250	450	37,926		692			
Goodman C. & C. Co.	Sugar Tree.....		5,000	5,294	300	100		150			
Howard Colliery Co.	Howard.....	8,180	12,154	20,334	645	190		4,430			
Chattahoo Colliery Co.	Chattahoo.....	6,295	9,821	16,116	534	88		19,469			
The Buffalo Collieries Co.	Buffalo.....	2,365	3,488	5,853				15,494			
Rawl C. & C. Co.	Rawl Nos. 1 & 2.....	4,464	6,784	11,250	446	178		5,883			
The Walnut Hills C. & M. Co.	No. 1.....	8,571	8,482	12,063		133		10,623			
Totals.....		640,446	734,787	1,375,233	14,223	52,495		1,308,015			
<i>Wayne County.</i>											
East Lynn Coal Co.	No. 1.....	11,545	9,620	21,165		772		20,393			
Totals.....		11,545	9,620	21,165		772		20,393			
<i>Barbour County.</i>											
Davis Colliery Co.	Junior.....	3,959	25,102	29,061	175	260	15,573	13,044	1,293	10,674	11,967
Philippi C. M. Co.	Philippi Nos. 1, 2, 3 & 4.....	5,780	10,440	16,240	768	135		15,337			
Tygart's River Coal Co.	Arden.....	12,380	25,162	37,542	863	191		24,168			
The Southern C. & Trans. Co.	Berryburg.....	134,200	134,887	269,177	6,675	2,338		260,164			
Laurel Creek Coal Co.	Laurel Creek.....	12,003	7,777	19,810		30		19,760			
The Century Coal Co.	No. 1 Shaft.....	86,693	99,127	185,820	2,300	651		182,869			
Freeport Smokeless C. & Coking Co.	Lillian.....	160	1,332	1,492				1,492			
The Pennsylvania C. & M. Co.	Adna.....	195	2,473	2,668		80		2,588			
The Clements C. & C. Co.	Clements.....	2,040	1,490	3,530		116		3,964			
Miller C. & C. Co.	Sara.....		2,348	2,348		48		2,300			
Pennsylvania Fuel Co.	Volga No. 1.....		300	300	50			250			
Totals.....		257,580	298,578	536,158	10,771	3,858	15,573	525,956	1,293	10,674	11,967
<i>Grant County.</i>											
Davis C. & C. Co.	No. 22.....	60,077	71,384	131,461	9,191	443		121,827			
	No. 33.....		885	885	172			713			

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.		NAME OF MINE.	Coal Production(Tons of 2,240 lbs)			Distribution of Coal (Tons of 2,240 lbs)			Production of Coke (Tons of 2,000 lbs.)			
			1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Purnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Taylor County.</i>												
Grafton C. & C. Co.	Sand Lick.....	8,560	18,400	26,960	.....	.....	.....	26,960	.....	.....	.....	.....
Pittsvein Coal Co.	Flemington.....	16,732	17,355	34,087	.....	.....	.....	32,499	.....	.....	.....	.....
Davis-Brydon C. Co.	Brydon.....	2,139	3,320	5,459	.....	206	.....	5,459	.....	.....	.....	.....
T. B. Davis.	T. B. Davis.....	27,584	21,516	49,100	.....	205	.....	48,895	.....	.....	.....	.....
Davis C. & C. Co.	No. 41.....	46,748	41,195	87,943	.....	447	.....	87,496	.....	.....	.....	.....
Rosemont Coal Co.	Rosemont.....	13,097	35,255	48,352	.....	200	.....	48,152	.....	.....	.....	.....
Totals.....		114,920	137,241	252,161	1,642	1,058	.....	249,461	.....	.....	.....	.....
<i>Tucker County.</i>												
Davis C. & C. Co.	No. 23.....	122,483	122,892	245,375	10,989	3,316	37,847	193,223	12,193	13,038	25,231	.....
"	No. 34.....	61,436	56,595	118,031	.....	.....	16,848	101,183	5,744	5,488	11,232	.....
"	No. 35.....	56,017	53,259	109,256	3,792	.....	.....	105,464	.....	.....	.....	.....
"	No. 35.....	20,049	13,486	33,535	4,931	.....	6,530	22,074	.....	94	4,353	.....
"	No. 36.....	57,554	68,257	125,821	298	.....	91,375	34,148	28,738	32,846	61,584	.....
"	No. 37.....	91,052	74,831	165,933	.....	1,850	134,053	30,030	47,303	42,066	89,369	.....
Cumberland Coal Co.	Douglas Nos. 3 & 4.....	42,833	42,928	85,761	536	.....	53,210	31,618	16,831	22,900	39,731	.....
"	Douglas No. 5.....	21,313	21,363	42,676	286	.....	.....	42,410	.....	.....	.....	.....
Beacon C. & C. Co.	Beacon No. 1.....	16,193	18,712	34,905	982	2,240	.....	31,683	.....	.....	.....	.....
Totals.....		488,930	472,363	961,293	21,794	7,803	339,863	591,833	115,068	116,432	231,500	.....

PRODUCTION OF COAL IN WEST VIRGINIA, BY GEOGRAPHICAL DISTRICTS, FOR THE YEAR ENDING JUNE 30th, 1905.

(Tons of 2,240 lbs.)

Potomac District.....	1,633,517
Monongahela District.....	7,867,931
Wheeling District.....	714,250
Kanawha—New River District.....	11,034,257
Norfolk & Western District.....	10,073,074
Total, commercial mines.....	31,323,029
Small Mines.....	180,000
Grand Total.....	31,503,029

POTOMAC DISTRICT.

(Counties of Grant, Mineral and Tucker.)

Davis Coal & Coke Co. (6 mines in Tucker, 5 in Mineral & 2 in Grant) ..	1,309,933
Cumberland Coal Co.....	128,437
The Masteller Coal Co.....	37,094
Beacon Coal & Coke Co.....	34,905
Buffalo Creek Cumberland Coal Co.....	34,707
Smith Coal Co.....	24,986
Abrams Creek Coal & Coke Co.....	21,190
Stafford Coal Mining Co.....	17,760
Big Vein Coal Co. of W. Va.....	17,505
Taylor Coal Co.....	5,500
Gleason Coal & Coke Co.....	1,500
Total.....	1,633,517

MONONGAHELA DISTRICT.

(Counties of Barbour, Harrison, Marion, Monongalia, Preston, Randolph and Taylor.)

Fairmont Coal Co. (13 mines in Harrison, 16 in Marion & 1 in Monongalia) ..	3,848,209
Clarksburg Fuel Co.....	531,613
Pittsburg & Fairmont Fuel Co.....	361,330
Davis Colliery Co. (2 mines in Randolph & 1 in Barbour).....	278,546
Southern Coal & Transportation Co.....	269,177
Davis Coal & Coke Co. (3 mines in Randolph & 1 in Taylor).....	254,292
Georges Creek Coal & Iron Co.....	244,647
Merchants Coal Co.....	186,750
The Century Coal Co.....	185,820
The Virginia & Pittsburg Coal & Coke Co.....	158,176
Madeira-Hill-Clark Coal Co.....	123,488
Austen Coal & Coke Co.....	117,496
West Virginia Coal Co. (1 in Preston & 1 in Monongalia.).....	102,103
Irona Coal Co.....	83,401
New Central Coal Co.....	69,401
Fairmont & Baltimore Coal & Coke Co.....	59,905
Davis-Brydon Coal Co.....	54,559
Cook Coal & Coke Co.....	54,000
Federal Coal & Coke Co.....	53,571
Meadow Brook Coal & Coke Co.....	51,511
Rosemont Coal Co.....	48,352
O'Gara Coal Mining Co.....	47,412
Hutchinson Fuel Co.....	42,872
Lukens Coal Co.....	39,049
Kilarm Coal & Coke Co.....	38,937

MONONGAHELA DISTRICT (Continued).

Chieftain Coal Co.....	37,599
Kingwood Coal Co.....	34,856
Pittsvein Coal Co.....	34,347
Pitcairn Coal Co. of W. Va.....	33,180
Gorman Coal & Coke Co.....	31,588
Pennsylvania Consolidated Coal Co.....	31,320
Oakland Coal & Coke Co.....	29,079
Orr Coal & Coke Co.....	28,787
Powell Coal & Coke Co.....	28,000
Hamilton Coal & Coke Co.....	27,510
Grafton Coal & Coke Co.....	26,960
Tygarts River Coal Co.....	25,162
Deckers Creek Coal & Coke Co.....	23,817
Atlantic Coal & Coke Co.....	20,102
Short Line Coal Co.....	20,000
Laurel Creek Coal Co.....	19,810
Hite Coal & Coke Co.....	16,285
Philippi Coal Mining Co.....	16,240
Harold Coal & Coke Co.....	12,320
Rose-Bud Coal Co.....	12,271
The Manufacturers Coal & Coke Co.....	11,278
Cook & Hart Coal Co.....	10,600
Opekiska Coal & Coke Co.....	6,349
Douglass-Rauch Coal & Coke Co.....	5,900
National Coal Co.....	4,422
The Clements Coal & Coke Co.....	4,080
Big Falls Coal Co.....	2,679
The Pennsylvania Coal & Mining Co.....	2,668
Miller Coal & Coke Co.....	2,348
Freeport Smokeless Coal & Coking Co.....	1,492
Ritter Coal Co.....	1,000
Niagara Coal & Coke Co.....	965
Pennsylvania Fuel Co.....	300
Total.....	7,867,931

WHEELING DISTRICT.

(Counties of Brooke, Hancock, Marshall and Ohio.)

Hitchman Coal & Coke Co.....	213,848
Lewis-Findley Coal Co.....	66,964
Wheeling Steel & Iron Co.....	62,885
The Marquet Coal Co.....	54,458
La Belle Iron Works.....	50,612
Boggs Run Mining & Manufacturing Co.....	47,070
The La Belle Coal Co.....	36,714
The Elm Grove Coal Co.....	32,330
Glendale Coal Co.....	30,771
Richland Coal Co.....	30,140
Beech Bottom Coal Co.....	29,513
Mound Coal Co.....	25,692
W. H. Kasley.....	7,682
Reymann Brewing Co.....	7,064
Peter Storch & Son.....	5,357
Wheeling Steam Coal Co.....	5,161
Jochum & Co.....	4,018
M. M. Cullen.....	3,571
The Glen Easton Coal & Coke Co.....	400
Total.....	714,250

KANAWHA-NEW RIVER DISTRICT.

(Counties of Clay, Fayette, Kanawha, Lincoln, Nicholas, Putnam and Raleigh.)

Kanawha & Hocking Coal & Coke Co. (8 mines in Kanawha & 5 in Fayette).....	772,544
The New River Smokeless Coal Co. (7 mines in Fayette & 2 in Raleigh) .	675,341
McKell Coal & Coke Co. (3 mines in Fayette & 3 in Raleigh).....	402,847
New River & Pocahontas Consolidated Coal Co.....	357,107
Collins Colliery Co.....	329,487
The White Oak Fuel Co.....	302,249
Boomer Coal & Coke Co.....	286,735
The Gauley Mountain Coal Co.....	239,533
Winifrede Coal Co.....	196,198
The Carver Brothers Co.....	173,847
The Marmet Coal Co.....	170,680
Raleigh Coal & Coke Co.....	163,629
Dunn Loop Coal & Coke Co.....	163,000
Cardiff Coal Co. (4 mines in Kanawha & 5 in Fayette.).....	160,610
Macdonald Colliery Co.....	154,034
Harvey Coal & Coke Co.....	151,710
Chesapeake Mining Co.....	150,637
Chapman Iron, Coal & Coke Co.....	148,662
Campbells Creek Coal Co.....	141,218
Low Moor Iron Co. of Va.....	134,299
Prudence Coal Co.....	130,608
Sugar Creek Coal & Coke Co.....	129,915
Ephraim Creek Coal & Coke Co.....	129,052
Star Coal & Coke Co.....	126,449
Columbus Iron & Steel Co.....	124,712
Carbon Coal Co.....	117,115
Kanawha Gas Coal Co.....	116,061
Black Band Coal & Coke Co.....	115,497
W. R. Johnson & Co.....	115,179
West Virginia Colliery Co.....	114,849
The Otto Marmet Coal & Mining Co.....	113,243
Stevens Coal Co.....	106,971
Piney Colliery.....	106,487
Hemlock Hollow Coal & Coke Co.....	104,000
Plymouth Coal & Mining Co.....	102,188
Greenwood Coal Co.....	95,904
The Mt. Carbon Co. Ltd.....	93,650
The Thurmond Coal Co.....	93,201
The Wright Coal & Coke Co.....	92,008
The Beechwood Coal & Coke Co.....	87,279
Cannelton Coal Co.....	87,200
Black Betsey Coal & Mining Co.....	86,016
Turkey Knob Coal Co.....	81,533
Imperial Colliery Co.....	79,663
Blume Coal & Coke Co.....	72,804
Gordon Coal & Coke Co.....	71,253
Kellys Creek Colliery Co.....	71,231
Cabin Creek Mining Co.....	70,493
Nuttallburg Coal & Coke Co.....	67,437
Brown Coal Co.....	66,837
Republic Coal Co.....	65,731
Ballinger Coal Co.....	63,934
Seranton Splint Coal Co.....	61,398
Echo Coal & Coke Co.....	61,286
W. R. Johnson.....	61,276
Stonewall Coal & Coke Co.....	60,738
Whipple Colliery Co.....	60,493

KANAWHA-NEW RIVER DISTRICT (Continued).

Paint Creek Coal Co.....	60,331
Stonecliff Coal & Coke Co.....	60,009
Dry Branch Coal Co.....	59,361
Smokeless Coal Co.....	55,945
Isabel Coal & Coke Co.....	55,878
Standard Splint & Gas Coal Co.....	54,235
Alaska Coal & Coke Co.....	53,315
Great Kanawha Colliery Co. Ltd.....	53,249
Quinnimont Coal Co.....	52,012
Equitable Coal Co.....	49,550
Mabscott Coal & Coke Co.....	48,500
The Elk Coal Co.....	48,339
Quarrier Coal Co.....	47,543
Cherokee Coal Co.....	46,095
Montgomery Coal Co.....	44,605
Dorfee Coal Mining Co.....	43,933
Belmont Coal Co.....	41,008
Wacomah Coal Co.....	40,498
St. Clair Colliery Co.....	40,465
Belleclare Coal Co.....	40,294
Robinson Coal Co.....	40,038
M. T. Davis Coal Co.....	39,773
Fire Creek Coal & Coke Co.....	39,763
Economy Fuel Co.....	39,020
Rothwell Coal Co.....	37,666
United Colliery Co.....	37,500
Coalburg Colliery Co.....	37,280
Morton Coal Co.....	36,954
Glendale Colliery Co.....	36,173
Stuart Colliery Co.....	36,154
Hughes Creek Coal Co.....	35,861
Laurel Creek Coal Co.....	35,668
Lynchburg Colliery Co.....	35,646
Deitz Colliery Co.....	35,464
Thistle Coal Co.....	35,461
Wake Forest Mining Co.....	35,455
Quincy Coal Co.....	35,358
Greenbrier Coal Co.....	35,323
Grose Colliery Co.....	30,948
Morris Creek Coal Co.....	30,810
Holly Coal Co.....	30,039
Beckley Coal & Coke Co.....	29,925
Michigan Coal Co.....	29,453
Raccoon Fork Coal Co.....	28,880
Banner Coal Co.....	27,945
Boone Coal & Coke Co.....	25,640
Manufacturers & Consumers Coal Co.....	25,601
The Fayette Coal & Coke Co.....	22,532
Nuckolls Coal & Coke Co.....	22,171
Shamrock Coal Co.....	22,160
Red Warrior Coal Co.....	19,603
Consumers Coal & Mining Co.....	18,050
Liverpool Salt & Coal Co.....	17,142
Gamoca Coal Co.....	17,051
Hanging Rock Coal Co.....	15,180
Detroit & Kanawha Coal Co.....	14,991
Shenandoah Coal & Coke Co.....	14,651
La Mont Mining Co.....	13,660
Mt. Carmel Coal & Coke Co.....	12,375
New Diamond Coal Co.....	12,000

KANAWHA-NEW RIVER DISTRICT (Continued).

Hickory Camp Coal & Coke Co.....	11,796
Cataract Colliery Co.....	10,966
Hartford City Salt Co.....	10,867
Carter Coal Co.....	10,516
New Castle Coal Co.....	10,201
The Cambria Mining Co.....	10,013
Ridgeview Coal Co.....	9,819
The Pawnee Coal Co.....	9,468
Falling Rock Cannel Coal Co.....	9,069
The Oak Forest Coal & Mining Co.....	8,789
Robins Coal Co.....	8,547
Caledonian Coal & Coke Co.....	7,998
The Columbus Coal Co.....	6,785
Mill Creek Cannel Coal Co.....	6,611
Pen Mar Mining Co.....	6,432
Bell Creek Coal Co.....	6,314
Beech Grove Coal Co.....	6,250
The National Coal & Coke Co.....	6,238
The Arminius Coal Co.....	5,804
Gauley Consolidated Coal Co.....	5,444
Rochester Coal Co.....	4,995
The Dungen Coal Co.....	4,676
Hope Salt & Coal Co.....	4,643
Mason City Mining Co.....	4,643
Coal River Lumber & Coal Co.....	4,464
The Gauley Co.....	3,995
J. G. Vaughan.....	3,926
Reynolds Black Band Coal Co.....	2,792
Guyandotte Coal Co.....	2,700
Keystone Coal Co.....	2,232
Lucas-Ray Coal Co.....	1,964
Clendenin Coal Co.....	1,661
American Coal & Coke Co.....	1,579
Newlyn Coal Co.....	1,500
Thos. D. Harris.....	1,071
Ohio Coal Mining Co.....	562
Alpha Coal Mining Co.....	340

Total..... 11,034,257

NORFOLK & WESTERN DISTRICT.

(Counties of Logan, McDowell, Mercer, Mingo and Wayne.)

The Pocahontas Consolidated Co. (7 mines in McDowell & 2 in Mercer..	1,199,649
United States Coal & Coke Co.....	660,777
Red Jacket Consolidated Coal & Coke Co.....	450,925
Thacker Coal & Coke Co.....	329,189
American Coal Co.....	327,156
Turkey Gap Coal & Coke Co.....	321,799
Mill Creek Coal & Coke Co.....	311,798
The Empire Coal & Coke Co.....	273,198
Houston Coal & Coke Co.....	269,875
Ashland Coal & Coke Co.....	261,518
Pulaski Iron Co.....	235,790
McDowell Coal & Coke Co.....	233,776
Elkhorn Coal & Coke Co.....	227,743
Crozer Coal & Coke Co.....	223,827
Tidewater Coal & Coke Co.....	205,293
Upland Coal & Coke Co.....	188,738
War Eagle Coal Co.....	179,296
Powhatan Coal & Coke Co.....	172,168

NORFOLK & WESTERN DISTRICT (Continued).

Booth-Bowen Coal & Coke Co.....	170,810
Algoma Coal & Coke Co.....	169,855
Gilliam Coal & Coke Co.....	158,927
Lynchburg Coal & Coke Co.....	151,500
Pocahontas Collieries Co.....	150,000
Bottom Creek Coal & Coke Co.....	145,380
Eureka Coal & Coke Co.....	145,000
Greenbrier Coal & Coke Co.....	144,587
Glen Alum Coal Co.....	143,336
Thomas Coal Co.....	142,298
Buckeye Coal & Coke Co.....	141,532
Keystone Coal & Coke Co.....	135,427
Shawnee Coal & Coke Co.....	131,653
Peerless Coal & Coke Co.....	128,197
Indian Ridge Coal & Coke Co.....	119,944
Arlington Coal & Coke Co.....	118,077
Roanoke Coal & Coke Co.....	117,754
Louisville Coal & Coke Co.....	99,581
Elk Ridge Coal & Coke Co.....	96,979
Crystal Coal & Coke Co.....	79,822
Goodwill Coal & Coke Co.....	78,658
Black Stone Consolidated Coal Co.....	75,803
Big Sandy Coal & Coke Co.....	74,652
Zenith Coal & Coke Co.....	57,498
Pocahontas Coal Mining Co.....	57,063
United States Coal & Oil Co.....	55,992
Oregon Coal Co.....	52,952
Welch Coal & Coke Co.....	46,573
Twin Branch Mining Co.....	41,141
Merrimac Coal & Coke Co.....	39,098
Mohawk Coal & Coke Co.....	38,611
Pearl Coal Mining Co.....	37,156
Cirrus Coal & Coke Co.....	34,748
Flournoy Colliery Co.....	31,614
Virginia Pocahontas Coal Co.....	31,250
Weyanoke Coal & Coke Co.....	28,888
Mate Creek Coal Co.....	28,000
Hatfield Colliery Co.....	26,786
The Gay Coal & Coke Co.....	25,379
Marvin Coal Co.....	23,285
Wenonah Coal & Coke Co.....	22,606
Hensley Coal Co.....	22,466
Davy Crockett Coal & Coke Co.....	21,384
Hiawatha Coal & Coke Co.....	21,190
East Lynn Coal Co.....	21,165
The Margaret Mining Co.....	20,805
Antler Coal & Coke Co.....	20,535
Draper Coal & Coke Co.....	20,384
Howard Colliery Co.....	20,334
Helena Coal Co.....	19,640
The Monitor Coal & Coke Co.....	19,321
Maher Coal & Coke Co.....	18,571
Vaughan Coal & Coke Co.....	18,541
Chattaroy Colliery Co.....	16,116
Cedar Coal Co.....	16,071
Piedmont Colliery.....	14,018
The Smokeless Coal & Coke Co.....	12,254
The Walnut Hills Coal & Mining Co.....	12,053
Spring Coal Mining Co.....	12,000
Short Creek Coal & Coke Co.....	11,607

Rawl Coal & Coke Co.....	11,250
Middle States Coal & Coke Co.....	8,713
Page Coal & Coke Co.....	7,083
Stone Branch Coal Co.....	6,540
The Buffalo Collieries Co.....	5,883
Goodman Coal & Coke Co.....	5,294
Cephas Coal Co.....	5,276
Culross Coal Co.....	4,023
Yukon Coal Co.....	3,297
Nolan Coal Co.....	3,100
H. A. Shaffer, Lessee.....	2,000
Lingohocken Coal Co.....	983
Williamson Coal & Coke Co.....	250
Total.....	10,073,074

*A COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED
COAL, BY COUNTIES, 1905.*

(Tons of 2,240 lbs.)

DISTRICT.	COUNTY.	Pick Mined Coal	Machine Mined Coal	Total Production
First	Brooke	96,477	87,826	183,803
First	Hancock	14,646	43,383	58,029
First	Harrison	569,244	1,991,661	2,560,905
First	Marion	1,465,107	1,786,892	3,251,999
First	Monongalia	101,446	77,306	178,752
First	Marshall	51,029	329,637	380,666
First	Ohio	91,752	.....	91,752
Second.....	Clay	15,960	44,495	60,455
Second.....	Kanawha	1,088,728	2,037,910	3,126,638
Second.....	Lincoln	7,695	.....	7,695
Second.....	Mason	77,846	.....	77,846
Second.....	Putnam	310,376	200	310,576
Third	Fayette	4,962,792	1,775,551	6,738,343
Third	Nicholas	19,323	32,201	51,524
Third	Raleigh	661,180	.....	661,180
Fourth	Logan	27,445	100,171	127,616
Fourth	McDowell	6,600,169	210,561	6,810,730
Fourth	Mercer	1,699,966	38,364	1,738,330
Fourth	Mingo	596,518	778,715	1,375,233
Fourth	Wayne	21,165	.....	21,165
Fifth.....	Barbour	252,646	303,512	556,158
Fifth.....	Grant	34,707	132,346	167,053
Fifth.....	Mineral	505,171	.....	505,171
Fifth.....	Preston	323,414	327,708	651,122
Fifth.....	Randolph	416,834	.....	416,834
Fifth.....	Taylor	218,947	33,214	252,161
Fifth.....	Tucker	776,665	184,628	961,293
	Totals	21,007,248	10,315,781	31,323,029
	Small Mines.....	180,000	.....	180,000
	Grand Totals	21,187,248	10,315,781	31,503,029

**SUMMARY OF THE PRODUCTION OF MACHINE MINED COAL IN
THE STATE FOR THE YEAR ENDING JUNE 30th, 1905.**

DISTRICT.	COUNTY.	No. of mines using ma- chines.	No. of machines.	Tons of coal produced by machines (Tons of 2,240 lbs.)	No. of machine miners.	No. of machine runners and helpers.	Total No. of machine men em- ployed.
First	Brooke	2	11	87,326	95	16	111
First	Hancock	3	4	43,383	50	8	58
First	Harrison	33	161	1,991,661	1,112	283	1,395
First	Marion	17	118	1,786,892	1,220	238	1,458
First	Monongalia	3	12	77,306	56	14	70
First	Marshall	4	20	329,637	259	42	292
Second	Clay	2	5	44,495	39	10	49
Second	Kanawha	72	267	2,037,910	2,067	443	2,510
Second	Putnam	1	1	200	.....	2	2
Third	Fayette	55	236	1,775,551	1,415	363	1,778
Third	Nicholas	5	11	32,201	76	18	94
Fourth	Logan	4	11	100,171	130	28	158
Fourth	McDowell	15	30	210,561	197	61	258
Fourth	Mercer	5	8	38,364	42	20	62
Fourth	Mingo	26	112	778,715	708	227	935
Fifth	Barbour	8	46	303,512	162	58	220
Fifth	Grant	2	14	132,346	82	27	109
Fifth	Preston	17	70	327,708	364	110	474
Fifth	Taylor	1	2	33,214	30	2	32
Fifth	Tucker	5	19	184,628	138	34	172
Totals		280	1,158	10,315,781	8,233	2,004	10,237

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM FOR THE
YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE.	No. of mine machines.	Tons of coal produced by machines (Tons of 2,240 lbs.)	No. of machine miners.	No. of machine runners & helpers.	Total No. men employed by machine mining.
<i>Harrison County—Continued.</i>						
Rose-Bud Coal Company.....	Rosebud.....	1	12,271	10	13	23
Hutchinson Fuel Co.....	Hutchinson No. 1.....	3	29,432	15	6	21
Douglas-Ranch C. & C. Co.....	Hutchinson No. 2.....	3	13,420	15	6	21
O'Gara Coal Mining Co.....	Phoenix.....	1	5,900	15	4	19
Lukens Coal Co.....	O'Gara.....	5	47,412	27	8	35
Chieftain Coal Co.....	Lukens.....	4	30,469	14	6	20
	Chieftain Nos. 1 & 2.....	4	37,359	35	3	38
Totals.....		161	1,391,661	1,112	283	1,395
<i>Marion County.</i>						
Fairmont Coal Co.....	Murray.....	6	90,243	35	10	45
" " " ".....	Montana.....	7	99,877	43	8	51
" " " ".....	W. Fair Shaft.....	6	132,517	116	31	147
" " " ".....	New England.....	10	140,246	150	30	180
" " " ".....	Gaston.....	4	104,543	100	15	115
" " " ".....	Monongah No. 3.....	6	146,363	90	10	100
" " " ".....	Monongah No. 2.....	6	214,896	135	12	147
" " " ".....	Monongah No. 6.....	1	209,683	130	18	148
" " " ".....	Monongah No. 8.....	1	2,714	10	4	14
" " " ".....	Anderson.....	10	123,980	71	10	81
" " " ".....	Highland.....	1	19,237	24	2	26
" " " ".....	Middleton.....	5	103,018	45	8	53
" " " ".....	Chietton.....	5	93,968	37	10	47
George's Creek Coal & Iron Co.....	Chatham No. 1.....	19	160,298	124	32	156
Federal Coal & Coke Co.....	Federal No. 1.....	12	53,571	50	20	70
New Central Coal Co.....	Stafford.....	12	66,526	35	14	49
Kilarn C. & C. Co.....	Kilarn.....	2	25,212	25	4	29
Totals.....		118	1,786,892	1,220	238	1,458
<i>Monongalia County.</i>						
Fairmont Coal Co.....	Beechwood.....	3	37,510	18	4	22
West Virginia Coal Co.....	No. 1.....	6	17,318	10	6	16
Deckers Creek C. & C. Co.....	Deckers Creek.....	3	22,478	28	4	32
Totals.....		12	77,306	56	14	70

<i>Marshall County.</i>		Hitchman	8	213,848	150	20	170
		Wheeling Steel & Iron Co.	3	39,326	40	6	46
		Glendale Coal Co.	2	30,771	35	4	39
		Mound Coal Co.	7	25,692	25	12	37
Totals			20	329,637	250	42	292
<i>Clay County.</i>		Elk Manor	4	43,933	35	8	43
		Ohio	1	562	4	2	6
Totals			5	44,495	39	10	49
<i>Kanawha County.</i>		Turner	4	27,543	25	8	33
		No. 1	10	138,442	95	28	123
		Quincy	2	10,175	11	2	13
		No. 2	1	6,924	8		8
		No. 101	4	39,365	35	6	41
		Nos. 103 & 104	4	11,607	30	6	36
		No. 105	7	98,510	80	14	94
		No. 106	4	55,653	60	6	66
		No. 108	2	604	15	4	19
		No. 109	4	34,336	35	8	43
		No. 110	5	6,385	12	6	18
		No. 1	5	71,231	50	10	60
		Cannelton No. 2	3	41,756	42	6	48
		Lens Creek	7	1,786	40	12	52
		Butler	9	27,693	37	7	44
		Monarch	12	65,295	66	17	83
		Winifrede Gas	3	2,545	20	8	26
		South	4	13,375	10	18	18
		North	2	64,656	75	12	87
		Ronda	1	6,335	5	2	7
		Acme	3	16,763	15	4	19
		Keystone	4	17,945	18	6	24
		Empire	6	24,829	20	6	26
		Shamrock	3	22,160	26	5	31
		Dry Branch No. 1	3	12,013	14	6	20
		Dry Branch Nos. 2 & 3	5	47,348	55	10	65
		Belleclare	4	34,771	25	6	31
		Ruby	2	5,523	10	4	14
		Oakley	3	12,968	25	6	31
		Chimax	2	19,584	15	4	19
		Horton Nos. 1 & 2	2	22,258	25	4	29
		Holly	6	30,039	20	8	28
		Quarrier	4	47,543	20	8	28
		Red Warrior	6	15,959	35	8	43
		Cherokee	4	28,261	28	6	34

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM FOR THE
YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE.	No. of mine ma- chines.	Tons of coal pro- duced by machines (tons of 2,240 lbs.)	No. of machine miners.	No. of machine runners and helpers	Total No. men em- ployed by machine mining.
<i>Kanawha County—Continued.</i>						
Wake Forest M. Co.	Wake Forest.	2	17,520	20	4	24
M. T. Davis Coal Co.	Davis.	3	39,773	20	6	26
Caledonian C. & C. Co.	Caledonia.	3	5,677	20	4	24
La Mont Mining Co.	La Mont Nos. 1 & 2.	2	13,660	10	4	14
	No. 3.	2		15	4	19
Carbon Coal Co.	South.	4	77,733	50	7	57
	North.	2	39,322	28	3	31
	No. 1.	2	45,941	30	4	34
	No. 2.	1	19,790	10	2	12
West Virginia Colliery Co.	No. 1.	5	89,938	50	10	60
Raccoon Fork Coal Co.	Raccoon Fork.	3	20,845	63	4	67
United Colliery Co.	United Gas.	4	37,500	25	4	29
Cabin Creek Mining Co.	Cabin Creek Nos. 1 & 2.	7	70,463	113	4	117
Belmont Coal Co.	Coalburg & Lewiston.	5	22,825	40	8	48
Equitable Coal Co.	Coalburg & Kanawha.	7	49,550	80	12	92
The Pawnee Coal Co.	Black Cat.	2	6,225	32	8	40
Seranton Splint Coal Co.	Seranton.	6	59,425	45	10	55
Paint Creek Coal Co.	Paint Creek.	3	55,173	50	6	56
Standard Splint & Gas Coal Co.	Standard.	4	51,021	40	6	46
Imperial Colliery Co.	Imperial No. 1.	6	27,599	20	8	28
	No. 2.	3	33,745	25	8	33
Morton Coal Co.	Morton No. 1.	5	36,686	35	10	45
	No. 2.	1	2,268	3	2	5
Banner Coal Co.	Coalburg & Crown Hill.	2	1,256	5	2	7
Chesapeake Mining Co.	Chesapeake No. 1.	7	19,243	15	19	26
	No. 2.	3	2,680	9	4	13
Montgomery Coal Co.	Kanawha.	3	7,633	10	4	14
Black Band C. & C. Co.	Black Band No. 1.	9	35,093	32	18	50
"	No. 2.	2	24,322	17	4	21
"	No. 3.	2	14,065	13	4	17
Hughes Creek Coal Co.	Hughston No. 2.	2	1,253	10	4	14
Morris Coal Co.	Morris Creek.	5	29,293	30	6	36
Totals		267	2,037,910	2,067	443	2,510

Zenith C. & C. Co. Page 1, 184 Middle States C. & C. Co.	Zenith Nos. 1 & 2. Page 5 Elkhorn.	2 3 2	57,498 1,184 8,713	24 5 25	12 1 4	36 6 29
Totals.		30	210,561	137	61	258
<i>Mercer County.</i>						
Louisville C. & C. Co. The Goodwill C. & C. Co. Spring C. M. Co.	Nos. 1, 2 & 3. Goodwill. Spring.	2 3 3	18,827 15,237 4,300	20 7 15	10 6 4	30 13 19
Totals.		8	38,364	42	20	62
<i>Mingo County.</i>						
Pearl Coal Mining Co. Red Jacket Cons. C. & C. Co. " " " Thacker C. & C. Co. Glen Alum Coal Co. War Eagle Coal Co. Hatfield Colliery Co. Mate Creek Coal Co. Marvin Coal Co. The Margaret M. Co. H. A. Shafter, Lessee Merrimac C. & C. Co. Goodman C. & C. Co. Howard Colliery Co. Clatsaro Colliery Co. The Buffalo Collieries Co. Rawl C. & C. Co.	Haggerty Rutherford. Red Jacket. Maritime Thacker No. 2. Thacker No. 3. Nos. 1 & 2. Hatfield Mate Creek Marvin Nos. 2, 3 & 5. Star. Coal Station & Nos. 1 & 2 Sugar Tree. Howard Chattaroy. Buffalo Rawl Nos. 1 & 2.	2 2 9 2 8 7 11 25 3 5 5 2 2 4 3 3 4	3,001 26,400 83,270 9,550 94,569 63,000 143,346 174,246 20,000 20,785 23,285 20,805 1,500 39,098 5,090 20,334 3,337 2,788 11,250	8 25 80 18 150 60 50 150 20 20 14 16 20 12 12 8 15 2 8 10	4 4 18 6 16 14 70 25 6 8 8 4 12 8 6 4 4 6	12 12 98 24 166 74 120 175 26 28 22 20 32 16 24 21 12 12 16
Totals.		112	778,715	708	227	935
<i>Barbour County.</i>						
Phillippi C. M. Co. Tygarts River Coal Co. The Southern C. & Trans. Co. The Century Coal Co. Pennsylvania Fuel Co.	Nos. 1, 2, 3 & 4. Arden. Berryburg. No. 1 Shaft. Volga No. 1.	6 6 17 13 4	16,240 25,162 210,227 51,583 300	20 25 82 35 300	4 6 30 14 4	24 31 112 49 4
Totals.		46	343,512	162	58	220
<i>Grant County.</i>						
Davis C. & C. Co. " " " " " "	No. 22 No. 33	13 1	131,461 885	80 2	26 1	106 3
Totals.		14	132,346	82	27	109

*COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM FOR
THE YEAR ENDING JUNE 30th, 1905.*

* NAME OF COMPANY.	NAME OF MINE.	No. of mine ma- chines.	Tons of coal pro- duced by machines (tons of 2,240 lbs.)	No. of machine runners and runners.	Total No. men em- ployed by machine mining.
<i>Preston County.</i>					
Austen C. & C. Co.	Austen No. 1.	1	5,110	12	14
Hamilton C. & C. Co.	Austen No. 2.	2	21,890	20	24
Gorman C. & C. Co.	Newburg Shaft.	8	19,310	30	36
Irona Coal Co.	Nos. 1 & 2.	6	12,635	15	25
Merchants Coal Co.	Nos. 1, 2 & 3.	11	59,401	70	88
Oakland C. & C. Co.	Tunnelton No. 2 & 3.	11	139,086	101	119
Kingwood Coal Co.	Corinth.	1	1,400	2	2
Orr Coal & Coke Co.	Howesville.	6	30,856	40	52
The Manufacturers C. & C. Co.	Vulcan.	7	14,363	25	35
Atlantic C. & C. Co.	Victoria Nos. 1 & 2.	6	11,278	4	16
	Nos. 1 & 2.	11	12,349	45	63
Totals.		70	327,308	364	474
<i>Taylor County.</i>					
Pittsvein Coal Co.	Flemington.	2	33,214	30	32
Totals.		2	33,214	30	32
<i>Tucker County.</i>					
Davis C. & C. Co.	Thomas No. 25.	11	109,256	81	101
Cumberland Coal Co.	Douglas Nos. 3 & 4.	4	28,686	22	28
Beacon C. & C. Co.	Douglas No. 5.	3	42,676	33	41
	Beacon No. 1.	1	4,000	.....	2
Totals.		19	184,628	138	172

*SUMMARY OF THE NUMBER AND KINDS OF MINING MA-
CHINES IN USE IN THE STATE, FOR THE YEAR
ENDING JUNE 30th, 1905.*

DISTRICT.	COUNTY.	Electrical Mine Machines.				Compressed Air Mine Machines.					Total No. of Machines.	Tons of coal pro- duced by Ma- chines (tons of 2,240 lbs.)
		Jeffrey.	Morgan- Gardner.	Goodman's Link-Belt.	Sullivan.	Harrison.	Ingersoll- Sergeant.	Sullivan.	Jeffrey.	Whitcomb		
First	Brooke	4				6	1				11	87,326
First	Hancock	4									4	43,383
First	Harrison	42	33	3		50	23	8	2		161	1,991,661
First	Marion	43	22			20	15	5	13		118	1,786,892
First	Monongalia	3	3			6					12	77,306
First	Marshall	11	2			7					20	329,637
Second	Clay	1	4								5	44,495
Second	Kanawha	106	124	8	1	22	6				267	2,037,910
Second	Putnam	1									1	200
Third	Fayette	50	55	25	4	92		10			236	1,775,551
Third	Nicholas	5	6								11	32,201
Fourth	Logan	4	5	1	1						11	100,171
Fourth	McDowell	6				8	14	2			30	210,561
Fourth	Mercer						8				8	38,364
Fourth	Mingo	15	10		1	39	44	3			112	778,715
Fifth	Barbour	21	8			12	3	2			46	303,512
Fifth	Grant						14				14	132,346
Fifth	Preston		6	3		32	6	17	6		70	327,708
Fifth	Taylor		2								2	33,214
Fifth	Tucker						16	3			19	184,628
	Totals.....	316	280	40	7	294	150	50	15	6	1,158	10,315,781

Madeira-Hill-Clark C. Co.	Waldo No. 1	42	33	3	1	9	2	11	96,313
Rosebud Coal Co.	Rosebud	6	1	1	1	1	2	3	12,271
Hutchinson Fuel Co.	Hutchinson No. 1	7	1	2	1	1	1	3	29,452
	No. 2	10	1	2	1	1	1	3	13,420
Douglas-Rauch C. & C. Co.	Phoenix	3	1	1	1	1	1	1	5,900
O'Gara Coal Mining Co.	O'Gara	6	6	6	5	5	5	5	47,412
Lukens Coal Co.	Lukens	6	6	6	4	4	4	4	30,409
Chieftain Coal Co.	Chieftain Nos. 1 & 2	1	4	4	4	4	4	4	37,569
Totals.....		42	33	3	1	50	23	161	1,991,661
<i>Marion County.</i>									
Fairmont Coal Co.	Murray	6	1	1	1	1	1	1	90,243
	Montana	7	1	1	1	1	1	1	99,877
	W. Fair. Shaft	6	1	1	1	1	1	1	132,517
	New England	10	1	1	1	1	1	1	140,246
	Gaston	3	1	1	1	1	1	1	104,543
	Monongah No. 3	6	6	6	6	6	6	6	146,363
	No. 2	6	6	6	6	6	6	6	214,896
	No. 6	6	6	6	6	6	6	6	290,683
	No. 8	1	1	1	1	1	1	1	27,713
	Anderson	1	1	1	1	1	1	1	123,880
	Highland	6	6	6	6	6	6	6	19,237
	Middleton	5	5	5	5	5	5	5	103,018
	Chiefton	5	5	5	5	5	5	5	33,968
George's Creek Coal & Iron Co.	Chatham No. 1	1	1	1	1	1	1	1	190,298
Federal Coal & Coke Co.	Federal No. 1	1	1	1	1	1	1	1	53,571
New Central Coal Co.	Stafford	1	1	1	1	1	1	1	66,526
Kilarm Coal & Coke Co.	Kilarm	1	1	1	1	1	1	1	25,212
Totals.....		43	22	2	1	20	15	118	1,786,892
<i>Monongalia County.</i>									
Fairmont Coal Co.	Beechwood	3	3	3	3	3	3	3	37,510
West Virginia Coal Co.	No. 1	1	1	1	1	1	1	1	17,318
Deckers Creek C. & C. Co.	Deckers Creek	1	3	3	3	3	3	3	22,478
Totals.....		3	3	3	3	6	6	12	77,306
<i>Marshall County.</i>									
Hitchman C. & C. Co.	Hitchman	8	8	8	8	8	8	8	213,848
Wheeling Steel & Iron Co.	Benwood	3	3	3	3	3	3	3	69,326
Glendale Coal Co.	Glendale	1	2	2	2	2	2	2	30,771
Mound Coal Co.	Mound	1	1	1	1	1	1	1	25,692
Totals.....		11	2	2	2	7	7	20	329,637
<i>Clay County.</i>									
Dorfee Coal Mining Co.	Elk Manor	1	4	4	4	4	4	4	43,933

Cardiff Coal Co.	Horton Nos. 1 & 2	2	6	22,258
Holly Coal Co.	Holly	2	6	30,039
Quarrier Coal Co.	Quarrier	2	4	47,543
Red Warrior Coal Co.	Red Warrior	2	6	15,959
Cherokee Coal Co.	Cherokee	2	2	28,261
Wake Forest M. Co.	Wake Forest	2	2	17,520
M. T. Davis Coal Co.	Davis	2	2	39,773
Caledonian C. & C. Co.	Caledonia	2	2	5,677
La Mont Mining Co.	La Mont Nos. 1 & 2	2	2	13,660
Carbon Coal Co.	La Mont No. 3	2	2	77,793
Republic Coal Co.	South	2	2	39,322
West Virginia Colliery Co.	North	2	2	43,941
Raccoon Fork Coal Co.	No. 1	2	2	19,740
United Colliery Co.	No. 2	2	2	89,938
Cabin Creek Mining Co.	No. 1	2	2	20,845
Belmont Coal Co.	United Gas	2	2	37,500
Equitable Coal Co.	Cabin Creek Nos. 1 & 2	2	2	70,493
The Pawnee Coal Co.	Coalburg & Lewiston	2	2	22,825
Scranton Splint Coal Co.	Coalburg & Kanawha	2	2	49,530
Paint Creek Coal Co.	Black Cat	2	2	6,225
Standard Splint & Gas C. Co.	Scranton	2	2	59,425
Imperial Colliery Co.	Paint Creek	2	2	55,173
Morton Coal Co.	Standard	2	2	51,021
Banner Coal Co.	Imperial No. 1	2	2	33,745
Chesapeake Mining Co.	Imperial No. 2	2	2	36,686
Chesapeake No. 1	Morton No. 1	2	2	1,256
Chesapeake No. 2	Morton No. 2	2	2	19,246
Montgomery Coal Co.	Coalburg & Crown Hill	2	2	2,680
Black Band C. & C. Co.	Chesapeake No. 1	2	2	7,693
Hughes Creek Coal Co.	Kanawha	2	2	35,003
Morris Creek Coal Co.	Black Band No. 1	2	2	24,522
	" " No. 2	2	2	14,065
	" " No. 3	2	2	1,253
	Hughes No. 2	2	2	29,293
	Morris Creek	2	2	2,037,910
Totals	106	124	8	267
Putnam County			1	200
Black Betsey C. & M. Co.	Black Betsey	1	1	200
Fayette County			4	80,689
Kanawha & Hocking C. & C. Co.	No. 111	1	3	80,353
" " " "	No. 112	1	3	83,298
" " " "	No. 114	4	4	111,146
" " " "	No. 115	4	4	

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.				Compressed Air Mine Machines.				Total No. of Machines.	Tons of coal produced by machines (Tons of 2,240 lbs.
		Jeffrey.	Morgan-Gardner.	Goodman's Link-Belt.	Sullivan.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Jeffrey.			Whitcomb.
Fayette County—Continued.											
Kanawha & Hocking C. & C. Co.	No. 117.	1	4	3							35,363
Columbus Iron & Steel Co.	No. 1.		1								87,412
Kanawha Gas		1	3								96,419
Kanawha Gas Coal Co.	Oakland	2	2	1							115,179
W. R. Johnson & Co.	Boomer No. 1.	1	4								65,225
Boomer C. & C. Co.	Boomer No. 2.	3	2								127,115
"	Boomer No. 3.	4	3								79,567
"	Boomer No. 4.	4	3								26,072
"	Eureka No. 5.	3	2								4,562
Gordon C. & C. Co.	Mecca Gas.										3,664
The Carver Bros. Co.	Mecca Block		1								2,934
"	Nos. 2 & 3.		1								1,069
W. R. Johnson.	Eagle, Cal. & No. 1.	1	1								2,000
The Mt. Carbon Co. Ltd.	Eagle No. 1.		1			2	1				13,000
"	Vulcan No. 1.	2									16,200
"	South.	2									4,281
"	Excelsior.	4									5,757
"	Brewster.	2	1								134
The Gt. Kanawha Colliery Co., Ltd.	Edwards.	2									4,129
"	Rhinolas	1									56,200
Cardiff Coal Co.	Kimberly Nos. 1 & 2.		4								28,497
"	Columbia		2								10,002
"	Elk Ridge Nos. 1 & 2.		4								118,843
The Gauley Mountain C. Co.	Elk Ridge Nos. 1 & 2					21					22,584
Isabel Coal & Coke Co.	Gauley Mt.										9,623
"	Elko.	4	1								4,873
"	Sunnyside	2									54,081
Michigan Coal Co.	Michigan.	1									9,976
Low Moor Iron Co., of Va.	Ray Moor No. 1.					18					2,007
Cataract Colliery Co.	Whitney			3							19,372
Nuttallburg Coal & Coke Co.	Nuttallburg	2									17,200
Rothwell Coal Co.	Dubree.	4									37,919
Chapman Iron, Coal & Coke Co.	Everson.	2				8					32,945
The New River Smokeless C. Co.	Brooklyn			2		14					55,458
"	Red Ash					14					25,157
"	Rush Run	1									
Ephraim Creek C. & C. Co.	Buffalo & Slater.				4						

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE	Electrical Mine Machines.				Compressed Air Mine Machines.				Total No. of Machines.	Tons of coal produced by machines (tons of 2,240 lbs.)	
		Jeffrey.	Morgan-Gardner.	Goodman's Link Belt.	Sullivan.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Jeffrey.			Whitcomb.
<i>Mercer County—Continued.</i>												
The Goodwill C. & C. Co.	Goodwill.						3				3	15,237
Spring C. M. Co.	Spring.						3				3	4,300
Totals.							6				6	38,364
<i>Mingo County.</i>												
Pearl C. M. Co.	Haggerty.	2										3,001
Red Jacket Cons. C. & C. Co.	Rutherford.	2										26,400
	Red Jacket.	9										83,270
	Maritime.	2										9,550
Thacker C. & C. Co.	Thacker No. 2.						8					94,589
	Thacker No. 3.						5	2				63,000
Glen Alum Coal Co.	Nos. 1 & 2.	10			1						11	143,336
War Eagle Coal Co.	War Eagle & Pappoose.					3	25				25	179,296
Hatfield Colliery Co.	Hatfield.					4					3	26,786
Mate Creek Coal Co.	Mate Creek.					4		1			4	20,000
Marvin Coal Co.	Marvin.										5	23,285
The Margaret M. Co.	Nos. 2, 3 & 5.					1	4				5	20,805
H. A. Shafer, Lessee.	Star.					5					5	1,500
Merrimac C. & C. Co.	Coaling Station & Nos 1&2.					7					7	39,098
Goodman C. & C. Co.	Sugar Tree.					2					2	5,000
Howard Colliery Co.	Howard.					4					4	20,334
Chattaroy Colliery Co.	Chattaroy.					4					4	5,357
The Buffalo Collieries Co.	Buffalo.					3					3	2,788
Rawl C. & C. Co.	Rawl Nos. 1 & 2.					2	2				4	11,250
Totals.		15	10		1	39	44	3			112	778,715
<i>Barbour County.</i>												
Philippi C. M. Co.	Nos. 1, 2, 3 & 4.	5	1								6	16,240
Tygart's River Coal Co.	Arden.					6					6	25,162
The Southern C. & Trans. Co.	Berryburg.	10				2	3	2			17	210,227
The Century Coal Co.	No. 1 Shaft.	6	7								13	51,583
Pennsylvania Fuel Co.	Volga No. 1.					4					4	51,300
Totals.		21	8			12	3	2			46	303,512

TABLE SHOWING THE COMPARATIVE STATEMENTS OF THE
COKE PRODUCTIONS FOR 1904 AND 1905.

(Tons of 2,000 lbs.)

COUNTY.	1905	1904	Increase of 1905 Over 1904.	Decrease of 1905 Under 1904.
Harrison		621		621
Marion	127,850	102,416	25,434	
Monongalia	42,802	22,999	19,803	
Kanawha	19,993	9,547	10,446	
Fayette	430,163	434,919		4,756
McDowell	1,380,805	1,170,200	210,605	
Mercer	267,697	190,132	77,565	
Barbour	11,967	19,128		7,161
Preston	79,757	27,611	52,146	
Randolph	146,243	77,077	69,166	
Tucker	231,500	221,801	9,699	
Totals ..	2,738,777	2,276,451	474,864	12,538

NUMBER OF COKE OVENS NOT IN USE—1905.

DISTRICT.	COUNTY.	No. Coke Ovens not in Use.	Field in which located
First	Harrison	110	Upper Monongahela.
First	Marion	634	" "
First	Monongalia	20	" "
Second	Kanawha	15	Kanawha.
Third	Fayette	1,312	New River.
Third	Raleigh	80	" "
Fourth	McDowell. .	2,619	Pocahontas.
Fourth	Mercer	881	" "
Fifth	Barbour	6	Upper Monongahela.
Fifth	Preston	218	" "
Fifth	Randolph	119	" "
Fifth	Tucker	115	Upper Potomac.
	Total	6,426	

NUMBER OF COKE OVENS NOT IN USE—1905.

NAME OF COMPANY.	NAME OF MINE.	No. Coke Ovens not in use.
<i>Harrison County.</i>		
Fairmont Coal Co.....	Enterprise.....	60
Fairmont & Baltimore C. & C. Co.....	Fairmore.....	30
Hutchinson Fuel Co.....	Hutchinson No. 1.....	20
Total.....		110
<i>Marion County.</i>		
Fairmont Coal Co.....	Murray.....	96
.....	Montana.....	60
.....	West Fairmont Shaft.....	36
.....	New England.....	94
.....	Gaston.....	89
.....	Monongah No. 3.....	9
.....	Monongah Nos. 2 and 6.....	132
.....	Hutchinson.....	50
The Virginia and Pittsburg C. & C. Co.....	King.....	8
Powell C. & C. Co.....	Powell.....	60
Total.....		634
<i>Monongalia County.</i>		
Opekiska C. & C. Co.....	Opekiska.....	20
Total.....		20
<i>Kanawha County.</i>		
Cannelton Coal Co.....	Cannelton No. 2.....	15
Total.....		15
<i>Fayette County.</i>		
St. Clair Colliery Co.....	No. 1.....	25
W. R. Johnson.....	Eagle No. 1.....	80
The Carver Bros. Co.....	Nos. 2 & 3.....	44
The Mt. Carbon Co., Ltd.....	Vulcan.....	67
The Gt. Kanawha Colliery Co., Ltd.....	Brewster.....	29
The Gauley Mt. C. Co.....	Gauley Mountain.....	27
Loup Creek Colliery Co.....	Eagle & Ansted.....	505
Newcastle Coal Co.....	Gaymont.....	25
Isabel Coal Co.....	Sunnyside.....	3
Low Moor Iron Co., of Va.....	Kay Moor No. 1.....	11
Nuttallburg C. & C. Co.....	Nuttallburg.....	55
Chapman Iron, Coal & Coke Co.....	North Victoria.....	50
.....	Elverton.....	19
.....	Central.....	50
The New River Smokeless C. Co.....	Brooklyn.....	1
.....	Red Ash.....	80
.....	Sun No. 2.....	20
Fire Creek C. & C. Co.....	Fire Creek.....	26
Echo C. & C. Co.....	Echo.....	30
Stone Cliff C. & C. Co.....	Stone Cliff.....	40
The Beechwood C. & C. Co.....	Beechwood No. 1.....	3
Harvey C. & C. Co.....	Harvey.....	2
Collins Colliery Co.....	Collins Nos. 1 & 2.....	25
The Turkey Knob C. Co.....	Turkey Knob.....	25
The Macdonald Colliery Co.....	Macdonald.....	10
Greenwood Coal Co.....	Greenwood.....	50
New River & Pocahontas Cons. C. Co.....	No. 1.....	10
Total.....		1,312
<i>Raleigh County.</i>		
The New River Smokeless C. Co.....	Royal.....	80
Total.....		80
<i>McDowell County.</i>		
Tidewater C. & C. Co.....	Tidewater.....	180
Bottom Creek C. & C. Co.....	Bottom Creek.....	132
Peerless C. & C. Co.....	Peerless.....	109
The Empire C. & C. Co.....	Empire.....	100
Shawnee C. & C. Co.....	Shawnee.....	88
Eureka C. & C. Co.....	Eureka.....	85
Pulaski Iron Co.....	Pulaski.....	90
Keystone C. & C. Co.....	Keystone Nos. 1 and 2.....	80

NUMBER OF COKE OVENS NOT IN USE—1905.

NAME OF COMPANY.	NAME OF MINE.	No. coke ovens not in use.
<i>McDowell County—Continued.</i>		
Algoma C. & C. Co.	Piney, Big 4 & North Fork..	129
Gilliam C. & C. Co.	Gilliam	97
Roanoke C. & C. Co.	Roanoke	30
Indian Ridge C. & C. Co.	Indian Ridge	50
Arlington C. & C. Co.	Arlington	58
Greenbrier C. & C. Co.	Greenbrier	100
McDowell C. & C. Co.	McDowell	80
Ashland C. & C. Co.	Ashland Nos. 1 & 2..	250
Elk Ridge C. & C. Co.	Elk Ridge	76
Lynchburg C. & C. Co.	Lynchburg	89
Powhatan C. & C. Co.	Powhatan	105
Houston C. & C. Co.	Houston Nos. 1 & 2..	30
Crozer C. & C. Co.	Crozer Nos. 1 & 2..	154
Turkey Gap C. & C. Co.	Turkey Gap	40
The Pocahontas Consolidated Co.	Norfolk & Angle	172
" " " "	Lick Branch	28
" " " "	Delta	20
" " " "	Shamokin	106
" " " "	Rolfe	100
" " " "	Cherokee	128
Elkhorn C. & C. Co.	Elkhorn	2
Pocahontas C. M. Co.	Tug River	50
United States C. & C. Co.	No. 1 & Shaft	21
" " " "	No. 3	16
" " " "	No. 4	77
" " " "	No. 5	44
Totals		2,916
<i>Mercer County.</i>		
Mill Creek C. & C. Co.	Mill Creek	65
" " " "	Coaldale	54
Buckeye C. & C. Co.	Buckeye	118
The Pocahontas Consolidated Co.	Caswell	131
" " " "	Sagamore	234
Booth-Bowen C. & C. Co.	Booth-Bowen	87
Louisville C. & C. Co.	Louisville Nos. 1, 2 & 3..	73
The Goodwill C. & C. Co.	Goodwill	45
American Coal Co.	Pinnacle	4
" " " "	Crane Creek Nos. 1 & 2..	10
Thomas C. Co.	Thomas	60
Total		881
<i>Barbour County.</i>		
Davis Colliery Co.	Junior	6
Total		6
<i>Preston County.</i>		
Austen C. & C. Co.	Austen No. 2	37
Hamilton C. & C. Co.	Newburg Shaft	67
Gorman C. & C. Co.	Nos. 1 & 2	5
Orr C. & C. Co.	Vulcan	45
The Manufacturers C. & C. Co.	Victoria Nos. 1 & 2..	64
Total		218
<i>Randolph County.</i>		
Davis Colliery Co.	Coalton	100
" " " "	Harding	19
Total		119
<i>Tucker County.</i>		
Davis C. & C. Co.	No. 34	24
" " " "	No. 35	37
" " " "	No. 36	22
" " " "	No. 37	22
Cumberland Coal Co.	Douglas Nos. 3 & 4..	10
Total		115

PRODUCTION OF COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1905.

DISTRICT.	COUNTY.	No. of coke plants reported.	Total tons of coal used in ovens (tons of 2,000 lbs)	Total tons of coke produced (tons of 2,000 lbs.)	Percentage of yield.	Total No. of coke ovens reported.	Total No. of coke ovens reported not in use.	Average No. of coke ovens operated during the year.		Average No. of day ovens were operated.	No. of men employed on ovens.
								In county.	Per plant.		
First	Harrison ..	3	221,659	127,850	57.7	110	110	414	59	205	183
First	Marion ..	12	65,594	42,882	65.2	1,048	634	146	47	228	48
First	Monroealia...	4	32,545	19,993	61.4	102	15	87	70	108	37
Second	Kanawha ..	2	711,874	430,163	60.4	3,273	1,312	1,961	82	219	649
Third	Fayette ..	33	.....	.....	.....	80	80	.....	.....	.....	.....
Third	Raleigh ..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fourth	McDowell ..	37	2,144,646	1,380,805	64.4	7,923	2,916	5,007	149	281	2,273
Fourth	Mercer ..	12	438,688	267,637	61.0	2,115	881	1,234	111	254	462
Fifth	Barbour ..	1	17,442	11,967	68.6	51	6	45	45	104	13
Fifth	Preston ..	7	130,334	79,757	61.2	573	218	355	71	221	146
Fifth	Randolph ..	4	213,789	146,243	68.4	520	119	401	81	251	128
Fifth	Tucker ..	5	380,647	231,500	60.8	719	115	604	129	244	233
	Totals	121	4,357,218	2,738,777	62.8	16,680	6,426	10,254	94	248	4,172

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30th, 1905.

NAME OF COMPANY.	NAME OF MINE.	Tons of coal used in ovens (tons of 2,000 lbs.)	Tons of coke produced (tons of 2,000 lbs.)	No. of coke ovens reported.	Avg. No. ovens used per plant	Avg. days ovens were operated.
<i>Harrison County.</i>						
Fairmont Coal Co.	Enterprise	.....	.....	60	.....	.....
Fairmont & Baltimore C. & C. Co.	Fairmore	.....	.....	30	.....	.....
Hutchinson Fuel Co.	Hutchinson No. 1	.....	.....	20	.....	.....
Totals		.....	.....	110	.....	.....
<i>Marion County.</i>						
Fairmont Coal Co.	Murray	.....	.....	96	.....	.....
"	Montana	71,048	40,496	150	90	263
"	West Fairmont Shaft.	.....	.....	36	.....	.....
"	New England	.....	.....	94	.....	.....
"	Gaston	.....	.....	89	.....	.....
"	Monongah No. 3	6,776	4,066	99	40	150
"	Monongah No. 2 & 6	51,169	30,852	222	90	150
"	Pennols	2,081	1,248	12	12	103
"	Hutchinson	.....	.....	50	.....	.....
The Virginia & Pittsburg C. & C. Co.	King	24,767	16,116	50	42	260
Seaboard & I. Co.	Chatham No. 1	35,578	21,011	50	50	365
Powell C. & C. Co.	Powell	30,240	14,021	100	40	150
Totals		221,659	127,850	1,048	59	205
<i>Monongalia County.</i>						
Opekiska C. & C. Co.	Opekiska	.....	.....	20	.....	.....
Fairmont Coal Co.	Beechwood	5,333	3,201	46	46	.....
West Virginia Coal Co.	No. 1	40,720	27,269	75	75	210
Deekers Creek C. & C. Co.	Deekers Creek	19,541	12,352	25	25	283
Totals		65,594	42,802	166	47	228
<i>Kanawha County.</i>						
Cannelton Coal Co.	Cannelton No. 2	32,265	19,751	90	75	143
Shenandoah C. & C. Co.	East Bank	.....	242	12	12	16
Totals		32,545	19,993	102	70	168
<i>Fayette County.</i>						
Kanawha & Hocking C. & C. Co.	No. 111	16,362	.....	50	50	125

Mill Creek C. & C. Co.	22,284	13,883	141	87	175
Buckeye C. & C. Co.	36,886	20,591	172	54	365
The Pocahontas Consolidated Co.	23,631	14,802	231	100	180
Booth-Bowen C. & C. Co.	1,141	636	284	50	30
Louisville C. & C. Co.	43,093	24,047	177	90	312
The Goodwill C. & C. Co.	27,691	16,336	125	52	206
American Coal Co.	19,302	12,477	90	45	210
Pinnacle	64,116	36,130	200	196	310
Crane Creek Nos. 1 & 2	60,286	31,217	200	190	310
Crystal	32,721	15,914	220	140	220
Thomas	38,588	19,431	140	80	207
Totals	438,688	267,697	2,115	111	254
<i>Barbour County.</i>					
Davis Colliery Co.	17,442	11,967	51	45	164
Totals	17,442	11,967	51	45	164
<i>Preston County.</i>					
Austin C. & C. Co.	49,439	30,488	90	90	310
No. 1	44,256	26,094	117	80	315
No. 2	4,334	2,592	95	28	36
Hamilton C. & C. Co.	2,240	1,700	40	35	85
Gorman C. & C. Co.	16,800	10,000	100	55	210
Orr C. & C. Co.	13,265	8,883	64	67	150
The Manufacturers C. & C. Co.	130,354	79,757	573	71	221
West Virginia Coal Co.	59,319	41,085	200	100	235
Totals	44,054	31,145	85	66	275
<i>Randolph County.</i>					
Davis Colliery Co.	72,016	47,883	150	150	.....
Davis C. & C. Co.	38,400	26,130	85	85	.....
Totals	213,789	146,243	520	81	251
<i>Tucker County.</i>					
Davis C. & C. Co.	42,389	25,231	114	90	255
No. 23	18,870	11,232	61	24	142
No. 34	7,314	4,353	147	125	290
No. 35	102,340	61,584	252	230	252
No. 36	150,139	89,369	145	135	200
No. 37	59,565	39,731	719	129	244
Douglas Nos. 3 & 4	380,647	231,500			
Totals					

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS, BY COUNTIES, FOR THE YEAR ENDING JUNE 30, 1905.

DISTRICT.	COUNTY.	No. of mines pro- ducing coal.	Avg. No. of Days mines were oper- ated.	No. of coke plants operated.	Avg. No. of Days ovens were oper- ated.	EMPLOYEES.								Sum Total.	
						Inside.				Outside.					
						Pick miners.	Machine miners.	Machine Runners & Helpers.	Laborers.	Total.	Laborers.	Coke workers.	Total.		
First	Brooke	4	281	...	...	190	95	16	40	341	38	...	38	379	...
First	Hancock	4	217	...	...	15	50	8	10	83	7	...	7	90	...
First	Harrison	43	205	...	...	533	1,112	283	662	2,590	477	...	477	3,067	...
First	Marion	24	236	7	205	1,001	1,220	238	654	3,113	475	183	658	3,771	...
First	Monongalia	5	254	3	228	88	56	14	37	195	39	48	87	282	...
First	Marshall	6	245	...	...	160	40	250	42	69	401	77	77	478	...
First	Ohio	7	200	...	...	160	...	...	...	...	...	...	...	...	...
Second	Clay	4	172	...	...	50	39	10	14	113	18	...	17	131	...
Second	Kanawha	101	163	2	168	1,646	2,067	443	1,321	5,477	802	37	839	6,316	...
Second	Lincoln	2	212	...	...	25	...	...	5	30	4	...	4	34	...
Second	Mason	9	159	...	...	196	...	...	36	235	36	...	36	271	...
Second	Putnam	8	199	...	...	587	...	...	188	777	89	...	89	866	...
Third	Fayette	123	205	28	219	5,451	1,415	363	2,458	9,687	1,329	649	1,978	11,665	...
Third	Nicholas	7	122	...	...	55	76	18	26	175	31	...	31	206	...
Third	Raleigh	22	167	...	...	702	...	...	187	889	131	...	131	1,020	...
Fourth	Logan	6	238	...	...	49	130	28	132	359	43	...	43	402	...
Fourth	McDowell	74	238	34	281	4,387	197	61	2,190	6,855	1,061	2,273	3,334	10,169	...
Fourth	Mercer	25	249	12	254	1,187	42	20	544	1,793	299	462	761	2,554	...
Fourth	Mingo	40	258	...	...	786	708	227	520	2,241	307	...	307	2,548	...
Fourth	Wayne	1	337	...	...	15	...	...	4	19	5	...	5	24	...
Fifth	Barbour	14	214	1	164	254	162	58	167	641	130	13	143	784	...
Fifth	Grant	3	275	...	...	51	82	27	48	208	36	...	36	244	...
Fifth	Mineral	13	233	...	...	595	...	...	73	668	69	...	69	737	...
Fifth	Preston	21	223	6	221	469	364	110	248	1,191	135	146	281	1,472	...
Fifth	Randolph	6	166	4	251	362	...	...	65	427	46	128	174	601	...
Fifth	Taylor	6	182	...	...	190	30	2	124	346	62	...	62	408	...
Fifth	Tucker	10	254	5	244	515	138	34	193	880	112	233	345	1,225	...
Totals		588	213	102	248	19,602	8,233	2,004	10,064	39,903	5,875	4,172	10,047	49,95	...

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.										Sum total.	Avg. No. of days mines were op-erated.	Avg. No. of ovens were op-erated.	In operation per plant.	No. of horses and mules inside.
		Inside.					Outside.									
		Pick miners.	Machine miners.	Machine runners & helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.							
<i>Brooke County.</i>		35	4	6	45	7	52	200	...	...	...	4	
Lewis.....	The La Belle Coal Co.....	60	...	2	62	6	68	200	...	...	...	5	
No. 1.....	Beech Bottom Coal Company.....	130	...	7	137	20	157	365	...	...	...	7	
Locust Grove.....	Lewis-Findley Coal Co.....	...	12	25	97	5	102	250	...	...	...	6	
La Belle.....	La Belle Iron Works.....	...	...	...	...	...	...	...	...	...	...	22
Totals.....	.....	190	95	40	341	38	379	281	...	...	...		
<i>Hancock County.</i>		5	8	2	7	5	9	250	...	...	...	1	
Porter No. 1.....	M. M. Cullen.....	10	50	8	76	...	81	212	...	...	...	5	
Nos. 1, 2 & 3.....	The Marquet Coal Co.....	...	...	...	...	...	...	...	...	...	...
Totals.....	.....	15	50	8	83	7	90	217	...	...	...	6
<i>Harrison County.</i>		22	83	22	48	175	34	209	247	...	...	11		
Pinnickinnick.....	Clarksburg Fuel Co.....	11	28	6	17	62	10	72	215	...	...	16		
Fall Run.....	.....	20	...	...	7	27	3	30	163	...	...	4
Dixie.....	.....	8	38	4	14	64	12	76	...	...	...	5
Two Lick.....	.....	2	34	14	16	66	16	82	192	...	...	6	
Interstate.....	.....	...	30	10	8	48	10	58	225	...	...	9
O'Neil Nos. 1 & 3.....	.....	...	30	8	10	48	12	60	120	...	...	11
O'Neil No. 2.....	.....	...	50	10	46	138	36	174	183	...	...	16
Fairmont Coal Co.....	.....	32	44	8	20	76	11	87	145	...	...	8	
Enterprise.....	.....	4	...	10	20	81	17	98	165	...	...	11	
Viropa.....	.....	11	40	9	19	70	16	86	178	...	...	8	
Ehlen.....	.....	...	34	20	25	125	30	155	181	...	...	18
Solon.....	.....	10	70	20	25	79	17	96	212	...	...	12	
Gypsy.....	.....	18	32	4	12	40	14	54	159	...	...	10	
Meadowbrook.....	.....	3	21	4	14	50	14	64	229	...	...	9	
Globe.....	.....	13	19	4	8	26	6	32	211	...	...	5	
Dunham.....	.....	6	10	2	...	...	7	39	195	...	...	3
Lynch.....	.....	25	...	...	7	32	20	116	220	...	...	16
Reynoldsville.....	.....	14	40	12	30	96	23	237	195	...	...	13	
Columbia.....	.....	28	60	16	110	214	15	215	...	...	...	9
Ocean.....	.....	10	26	6	24	66	17	103	259	...	...	11	
Riverdale.....	.....	...	...	...	...	...	...	...	...	...	...
Perry.....	Pittsburg & Fairmont Fuel Co.....	4	40	14	22	86	17	103	259	...	...			

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.										Avg. No. days op- erated.	Avg. No. ovens in operation per plant.	No. of horses and mules inside.		
		Inside.					Outside.									
		Pick Miners.	Machine Miners.	Machine & helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total	Sum Total						
<i>Harrison County—Continued.</i>																
Coaling Station	Pittsburg & Fairmont Fuel Co.	3	19	4	4	30	5	...	5	35	250	...	...	5
Pooz	"	12	45	8	16	81	15	...	15	96	274	...	...	12
Lucas	"	...	22	6	7	35	5	...	5	40	281	...	...	6
Fairmont	"	65	...	...	18	83	8	...	8	91	100	...	...	14
Girard No. 1	Fairmont & Baltimore C. & C. Co.	...	60	6	5	71	10	...	10	81	206	...	...	7
Erie	Cook C. & C. Co.	...	25	8	7	40	12	...	12	52	164	...	...	5
Waldo No. 1	Meadow Brook C. & C. Co.	25	75	22	30	132	20	...	20	172	250	...	...	16
No. 2	Madera-Hill-Clark C. Co.	...	...	...	5	34	5	...	5	35	100	...	...	2
Cork	Cook & Hart C. Co.	30	...	...	4	34	3	...	3	37	100	...	...	4
Rose Bud	Rose-Bud Coal Co.	...	10	13	3	26	2	...	2	28	230	...	...	3
Hutchinson No. 1	Hutchinson Fuel Co.	...	15	6	4	25	5	...	5	32	180	...	...	3
No. 2	"	...	15	6	6	27	5	...	6	32	192	...	...	5
Phoenix	Douglas-Ranch C. & C. Co.	...	15	4	6	25	8	...	8	33	92	...	...	3
O'Gara	O'Gara Coal Mining Co.	...	27	8	8	43	9	...	9	52	166	...	...	5
Lukens	Lukens Coal Co.	8	14	6	9	37	8	...	8	45	144	...	...	6
Chieftain Nos. 1 & 2	Chieftain Coal Co.	...	35	3	7	46	5	...	5	51	236	...	...	5
Pitcairn	Pitcairn Coal Co., of W. Va.	50	...	...	7	57	2	...	2	59	...	...	...	4
Harold	Harold C. & C. Co.	22	...	...	5	27	6	...	6	33	96	...	...	3
Girard No. 2	Short Line Coal Co.	30	...	...	7	37	5	...	5	42	...	...	...	3
Dola	National Coal Co.	14	...	...	1	15	1	...	1	16	75	...	...	1
Totals		533	1,112	283	662	2,590	477	...	477	3,067	205	...	...	317
<i>Marion County.</i>																
Murray	Fairmont Coal Co.	21	35	10	24	90	20	...	20	110	202	...	...	12
Montana	"	75	43	8	62	188	32	...	32	252	300	...	...	17
West Fair Shaft	"	81	116	31	72	300	45	...	45	345	184	...	...	34
New England	"	75	150	30	45	300	50	...	50	350	228	...	...	24
Gaston	"	40	100	15	35	190	30	...	30	220	213	...	...	15
Monongah No. 3	"	70	90	10	28	198	30	...	30	258	195	...	...	20
No. 2	"	60	135	12	30	237	28	...	35	300	222	...	...	22
No. 6	"	10	130	18	30	188	27	...	27	215	...	...	...	23
No. 8	"	...	10	4	4	18	...	...	...	18	25	...	...	3
Pennois	"	87	...	...	17	117	4	...	4	125	103	...	...	18
Marion	"	7	...	...	12	19	3	...	3	22	185	...	...	2

Anderson	Fairmont Coal Co.	18	71	10	128	12	12	12	140	239	.....	21
Highland	"	109	24	2	33	18	18	18	186	272	.....	17
Middleton	"	10	45	8	29	19	19	19	111	270	.....	17
Chetron	"	13	37	10	28	21	21	21	109	213	.....	19
Hutchinson	"	40	.....	.....	15	55	15	15	70	115	.....	19
King	The Virginia and Pittsburgh C. & C. Co.	115	.....	.....	24	139	12	12	24	163	260	42
Chatham No. 1	Georges Creek Coal & Iron Co.	74	124	32	60	290	43	40	83	373	282	50
No. 2	"	30	.....	.....	.....	30	.....	.....	30	.....	.....	24
Federal No. 1	Federal Coal & Coke Co.	.....	50	20	20	90	10	10	10	100	150	10
Stafford	New Central Coal Co.	8	35	14	18	14	14	14	84	180	.....	10
Kilam	Kilam Coal & Coke Co.	15	25	4	16	60	12	12	72	258	.....	4
Powell	Powell Coal & Coke Co.	28	.....	.....	8	36	13	30	43	79	150	40
Big Falls	Big Falls Coal Co.	20	.....	.....	2	22	4	4	26	.....	.....	2
Totals		1,001	1,220	238	654	3,113	475	183	658	2,336	205	59
Monongalia County.												
Opokiska	Opokiska Coal & Coke Co.	9	.....	.....	2	11	7	.....	7	18	89	8
Beechwood	Fairmont Coal Co.	34	18	4	14	70	8	16	24	94	224	46
No. 1	West Virginia Coal Co.	35	10	6	15	66	12	20	32	98	310	75
Deckers Creek	Deckers Creek C. & C. Co.	5	28	4	6	43	8	12	20	63	283	25
Round Bottom	Niagara Coal & Coke Co.	5	.....	.....	.....	5	4	.....	4	9	65	1
Totals		88	56	14	37	195	39	48	87	282	254	47
Marshall County.												
Hitchman	Hitchman C. & C. Co.	.....	150	20	25	195	20	.....	20	215	267	12
Boggs Run	Boggs Run M. & M'g Co.	40	.....	.....	13	53	7	.....	7	60	250	7
Benwood	Wheeling Steel & Iron Co.	.....	40	6	10	56	10	.....	10	66	277	3
Glendale	Glendale Coal Co.	35	35	4	6	45	9	.....	9	54	223	2
Mound	Mound Coal Co.	25	25	12	8	45	6	.....	6	51	130	5
McConnell	Mound	.....	.....	.....	7	7	25	.....	25	32	.....	.....
	The Glen Easton C. & C. Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals		40	250	42	69	401	77	...	77	478	245	29
Ohio County.												
Central	Joehum & Co.	.....	.....	.....	1	3	1	.....	1	4	.....	1
Whitaker	W. H. Kasley	2	.....	.....	4	16	3	.....	3	19	150	4
Richland	Richland Coal Co.	12	.....	.....	8	73	6	.....	6	79	230	5
Elm Grove	The Elm Grove C. Co.	65	.....	.....	9	69	5	.....	5	74	190	7
Manchester	Reymann Brewing Co.	60	.....	.....	4	11	.....	.....	11	313	.....	4
McKinley	Wheeling Steam C. Co.	7	.....	.....	3	11	2	.....	2	13	115	3
Storch	Peter Storch & Son	8	.....	.....	.....	6	.....	.....	6	.....	.....	.....
Totals		160	.....	.....	29	189	17	.....	17	206	200	24
Clay County.												
Elk Manor	Dorfee Coal Mining Co.	.....	35	8	9	52	7	.....	7	59	200	12
Ohio	Ohio Coal Mining Co.	.....	4	2	.....	6	1	.....	1	7	20	.....
Carter	Carter Coal Co.	30	.....	.....	1	31	7	.....	7	35	120	2

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.										No. of horses and mules inside.	
		Inside.					Outside.						
		Pick miners.	Machine miners.	Machine & runners & helpers.	Laborers.	Total.	Laborers.	Coke workers.	Total.	Sum total.	Avg. No. of days mines were op-erated.		Avg. No. of ovens in operation per plant.
Scott.....	Clay County—Continued. Gaulley Consolidated C. Co.....	20	39	10	4	24	3	18	3	27	172	.....	2
Totals.....		50	39	10	14	113	18	18	18	131	172	.....	16
Jones.....	Kanawha County. Falling Rock Cannel C. Co.....	30	.....	.....	2	32	3	.....	3	35	275	.....	4
Graham Mines.....	Keystone Coal Co.....	30	.....	.....	5	35	8	.....	2	37	380	.....	7
Queen Shoals.....	The Elk Coal Co.....	25	25	8	10	35	8	.....	2	43	304	.....	11
Turner.....	Lucas-Ray Coal Co.....	6	.....	.....	2	8	7	.....	7	61	218	.....	10
Lucas-Ray.....	Pen Mar Mining Co.....	16	.....	.....	2	18	1	.....	1	19	182	.....	2
Pen Mar No. 1.....	J. G. Vaughan.....	10	.....	.....	2	12	1	.....	1	13	65	.....	2
Sycamore.....	Clendenin Coal Co.....	8	.....	.....	3	11	1	.....	1	12	43	.....	1
Ramage.....	Mill Creek Cannel C. Co.....	25	.....	.....	6	31	12	.....	12	43	91	.....	2
Mill Creek.....	Campbells Creek C. Co.....	40	.....	.....	19	59	3	.....	3	62	17	.....	20
No. 1.....	New Diamond Coal Co.....	40	95	28	48	171	27	.....	27	198	200	.....	42
Blk. Diamond.....	Quincy Coal Co.....	20	11	2	7	45	6	.....	6	51	250	.....	5
Quincy.....	Kanawha & Hocking C. & C. Co.....	7	8	.....	1	16	2	.....	2	18	250	.....	3
No. 2.....	.....	35	35	6	25	101	15	.....	15	116	161	.....	13
Nos. 103 & 104.....	.....	30	30	6	40	106	10	.....	10	116	180	.....	7
No. 105.....	.....	.....	80	14	60	154	15	.....	15	169	165	.....	12
No. 106.....	.....	.....	60	6	40	106	12	.....	12	118	132	.....	12
No. 108.....	.....	.....	15	4	6	25	3	.....	3	28	15	.....	3
No. 109.....	.....	.....	35	8	20	63	5	.....	5	68	114	.....	6
No. 110.....	.....	38	12	6	25	81	6	.....	6	87	125	.....	3
No. 1.....	Kellys Creek Colliery Co.....	.....	50	10	25	85	8	.....	8	93	286	.....	8
Cannelton No. 2.....	Cannelton Coal Co.....	47	42	6	28	123	12	.....	35	170	201	.....	10
Lens Creek.....	The Marinet Coal Co.....	12	40	12	45	109	20	.....	20	129	41	.....	28
Butler.....	.....	65	37	7	57	165	26	.....	26	192	197	.....	20
Monarch.....	.....	3	63	17	43	129	32	.....	32	161	282	.....	3
Winifrede Gas.....	Winifrede Coal Co.....	20	20	6	8	54	6	.....	6	60	74	.....	25
Winifrede South.....	.....	35	10	8	45	158	16	.....	16	174	216	.....	25
Winifrede North.....	.....	25	75	13	40	152	12	.....	12	164	216	.....	25
Winifrede West.....	.....	50	.....	.....	17	67	5	.....	5	72	216	.....	58

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.										Avg. No. days over- mines were op- erated.	Avg. No. ovens in operation per plant.	No. of horses and mules inside	
		Inside.					Outside.								
		Pick miners	Machine miners	Machine & helpers	Labors	Total	Labors	Coke workers	Total	Sum Total					
Coalburg & Crown Hill Chesapeake No. 1..... No. 2..... Kanawha..... Black Band No. 1..... " " No. 2..... " " No. 3..... Hughes Creek Black Band No. 2..... Reynolds..... American..... Morris Creek..... Totals.	Kanawha County—Continued. Banner Coal Co. Chesapeake Mining Co. Montgomery Coal Co. Black Band C. & C. Co. " " " " " " " " Hughes Creek Coal Co. Coal River Lumber & Coal Co. Reynolds Black Band C. Co. American C. & C. Co. Morris Creek Coal Co.	30	5	2	8	45	7	.....	7	52	98	.....	4
		60	15	4	23	102	36	.....	36	138	240	.....	28
		30	9	.....	8	47	4	.....	4	51	242	.....	6
		45	10	4	19	78	13	.....	13	91	192	.....	10
		25	32	18	19	94	8	.....	8	102	224	.....	15
		2	17	4	7	30	3	.....	3	33	227	.....	5
		12	13	4	14	43	5	.....	5	48	221	.....	6
		50	10	4	8	72	6	.....	6	77	200	.....	4
		20	.....	.....	4	24	.....	.....	.....	30	150	.....	4
		15	10	25	10	10	35	90	1	
Rochester Guyandotte..... Totals.	Lincoln County Rochester Coal Co. Guyandotte Coal Co.	20	30	6	13	51	6	.....	6	57	178	.....	5
		1,646	2,067	443	1,321	5,477	802	37	839	6,316	163	168	70	769	
		15	.....	.....	2	17	2	.....	2	19	212	.....	2
		10	.....	.....	3	13	2	.....	2	15	.....	.....	3
		25	.....	.....	5	30	4	.....	4	34	212	.....	5
		Mason County. Hope..... McDaniel..... Jackson..... Hartford..... New Castle & Camden. Klondike..... Beech Grove..... Harris..... Totals.	Mason County. Hope Salt & Coal Co. Mason City Mining Co. Liverpool Salt & Coal Co. Hartford City Salt Co. Consumers C. & M. Co. Hanging Rock Coal Co. Beech Grove Coal Co. Thos. D. Harris.	20	4	24	2	2	26	100	6
				30	30	5	35	5	5	40	150	7
				25	5	30	2	2	32	225	3
				17	7	24	4	4	28	5
				45	10	55	13	13	68	175	11
30	.....			.....	.....	30	3	.....	3	33	240	.....	3
25	.....			.....	5	30	4	.....	4	34	109	.....	6
7	.....			.....	.....	7	3	.....	3	10	.....	.....	2
199	.....			.....	36	235	36	.....	36	271	159	.....	43
Plymouth.....	Putnam County. Plymouth C. & M. Co.			90	27	117	19	19	136	202	14

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.										No. of horses and mules inside.			
		Inside.				Outside.									
		Pick Miners	Machine Miners	Machine runners & helpers	Laborers	Total	Laborers	Coke workers	Total	Sum total	Avg. No. days mines were operated.		Avg. No. days over rated.	Avg. No. ovens in operation per plant.	
Sunnyside.....	<i>Fayette County—Continued.</i>	10	10	4	6	30	4	5	9	39	180	100	15	15	No. of horses and mules inside.
Dinnock.....	Isabel C. & C. Co.....	25	...	...	...	25	15	...	15	40	180	...	...	...	7
Michigan.....	Michigan Coal Co.....	30	10	...	9	51	5	...	5	56	240	...	...	...	9
Fayette.....	The Fayette C. & C. Co.....	41	...	...	48	89	4	...	4	93	293	...	...	...	11
Kay Moor No. 1.....	Low Moor Iron Co., of Va.....	60	36	36	30	162	15	40	55	217	256	270	100	...	18
No. 2.....	Whitney.....	30	...	...	7	97	3	...	3	40	238	...	...	...	6
Whitney.....	Newlyn.....	30	11	4	5	20	3	...	4	24	225	...	...	...	3
Keeneys Creek.....	Catawact Colliery Co.....	37	3	...	12	42	7	7	5	47	251	...	...	...	6
Nutfallburg.....	Manufacturers & Consumers C. Co.....	35	3	...	13	53	7	...	7	67	180	...	...	...	3
Keeneys Creek.....	Nutfallburg C. & C. Co.....	25	...	...	7	32	3	...	3	35	216	...	...	...	3
Brown.....	Brown Coal Co.....	125	...	...	20	145	12	...	12	157	223	...	...	...	14
Boone.....	Boone C. & C. Co.....	30	...	...	12	42	2	...	2	44	200	...	...	...	8
Ballinger No. 1.....	Ballingier Coal Co.....	55	...	...	12	67	8	...	8	75	209	...	...	...	9
No. 2.....	Blume.....	17	...	...	4	21	3	...	3	24	229	...	...	...	12
Blume.....	Blume C. & C. Co.....	110	...	...	22	132	12	...	12	144	240	...	...	...	3
Smokeless.....	Smokeless Coal Co.....	75	15	4	11	52	9	...	9	61	195	...	...	...	14
Dubree.....	Rothwell Coal Co.....	22	...	...	18	58	5	30	35	93	230	150	95	...	6
North Victoria.....	Chapman Iron, Coal & Coke Co.....	50	...	...	118	218	8	...	8	226	230	...	...	...	9
South.....	Elverton.....	100	21	3	18	89	4	20	24	113	225	183	40	...	13
Elverton.....	Central.....	47	...	...	15	25	12	...	12	57	155	...	...	...	7
Central.....	The New River Smokeless C. Co.....	20	...	...	15	45	4	...	4	29	254	...	...	...	8
Cunard.....	Brooklyn.....	30	17	7	10	57	15	17	25	82	201	335	64	...	18
Brooklyn.....	Red Ash.....	23	...	...	31	102	15	...	15	117	187	...	...	...	21
Red Ash.....	Rush Run.....	55	12	4	31	102	16	15	31	137	145	300	92	...	26
Rush Run.....	Sun Nos 1 & 3.....	45	22	10	29	106	16	...	16	131	145	...	...	...	44
Sun Nos 1 & 3.....	Sun No. 2.....	135	...	...	40	175	30	...	30	205	185	...	...	...	26
Sun No. 2.....	Fire Creek.....	80	...	...	21	101	21	35	56	157	179	300	100	...	20
Fire Creek.....	Fire Creek C. & C. Co.....	60	...	...	14	74	12	16	28	102	213	240	70	...	8
Echo.....	Echo C. & C. Co.....	100	...	...	15	115	10	6	16	131	215	...	...	...	20
The Thurmond Coal Co.....	The Thurmond Coal Co.....	75	...	...	13	88	8	...	8	96	138	...	...	...	8
Erskine.....	Stone Cliff C. & C. Co.....	35	...	...	6	41	3	...	3	44	205	...	...	...	10
Stone Cliff.....	The Beechwood C. & C. Co.....	50	...	...	15	65	14	5	19	84	...	...	...	...	11
The Beechwood No. 1.....		60	...	...	15	75	6	5	11	86	194	90	20	...	7
No. 2.....		48	...	...	8	56	4	...	4	60	234	...	...	...	8
Alaska.....		45	...	...	15	60	10	...	10	70	210	...	...	...	11

Ridgeview		Ridgeview Coal Co.		25	12	4	6	31	4	4	4	35	160	160	2
Buffalo & Slater		Ephraim Creek C. & C. Co.		75	12	4	25	116	25	22	25	141	203	203	2
Harvey		Prudence Coal Co.		115	17	5	75	190	16	17	17	228	175	175	26
Prudence		The Star C. & C. Co.		137	25	4	50	209	14	14	14	226	200	200	23
Star		Collins Colliery Co.		100	16	8	27	156	12	40	52	477	200	220	23
Collins Nos. 1 & 2		Whipple Colliery Co.		300	16	8	125	425	12	19	19	128	200	200	58
Whipple		McKell C. & C. Co.		45	16	8	40	109	19	15	15	155	130	130	35
Derryhale		Laura Mining Co.		73	25	2	61	140	20	20	20	235	180	180	40
McKell		Dunn Loop C. & C. Co.		49	25	2	65	235	20	3	3	30	155	155	12
Kilsyth		Newlyn Coal Co.		170	80	43	28	73	12	12	12	85	130	130	28
Laura		Dunlop No. 1		25	25	2	43	123	16	16	16	138	135	135	22
Dunlop No. 2		Newlyn Coal Co.		45	25	2	2	27	3	3	3	18	74	74	1
Dunlop No. 3		The Turkey Knob C. Co.		80	12	6	25	105	50	16	66	279	279	279	2
Dunglen		The Macdonald Colliery Co.		25	80	12	34	162	20	18	38	200	200	200	18
Turkey Knob		Sugar Creek C. & C. Co.		110	11	6	50	151	23	23	26	177	268	268	32
Macdonald		The White Oak Fuel Co.		101	3	1	48	230	26	8	26	256	181	181	36
Sugar Creek		Wingrove		165	3	1	12	42	8	8	8	50	185	185	12
Scarbro No. 1		Carlisle		20	45	2	26	86	18	10	18	104	178	178	8
Scarbro No. 2		Oakwood		45	18	58	18	58	10	6	10	68	189	189	24
Wingrove		Beech Creek		40	6	2	3	11	6	3	6	17	85	85	16
Carlisle		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	3
Oakwood		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	5
Parra Shaft		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	8
Beech Creek		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	9
Stuart		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
Big Q. & Luck Branch		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	4
Robins		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	8
Glendale		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	4
Laurel Creek		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	20
Greenwood		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	9
Hemlock		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	12
No. 1		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	18
No. 2		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	15
No. 3		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	14
No. 4		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	16
No. 5		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	5
No. 6		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	4
No. 7		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	5
No. 8		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 9		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	5
No. 10		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 11		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 12		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 13		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 14		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 15		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 16		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 17		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 18		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 19		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 20		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 21		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 22		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 23		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 24		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 25		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 26		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 27		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 28		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 29		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 30		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 31		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 32		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 33		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 34		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 35		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 36		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 37		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 38		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 39		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 40		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 41		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 42		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 43		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 44		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 45		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 46		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 47		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 48		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 49		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 50		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 51		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 52		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 53		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 54		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 55		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 56		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 57		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 58		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 59		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 60		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 61		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 62		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 63		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 64		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 65		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 66		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 67		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 68		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 69		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 70		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 71		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 72		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 73		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 74		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 75		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 76		Stuart Colliery Co.		40	6	2	3	11	3	3	3	14	250	250	6
No. 77		Stuart Colliery Co.		40</											

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	EMPLOYEES.										Ave. No. days mines were op-erated.	Ave. No. ovens in operation per plant.	No. of horses and mules inside.
	Inside.					Outside.							
	Pick miners.	Machine miners.	Machine runners & helpers.	Laborers.	Total	Laborers.	Coke workers.	Total.	Sum total.				
<i>Nicholas County—Continued.</i>													
Greendale	55	76	2	1	9	4		4	13	75			13
Totals				26	175	31		31	206	122			
<i>Raleigh County.</i>													
Royal	37			25	62	13		13	75	201			17
Lanark Nos. 1, 2	45			18	63	16		16	79	204			18
Raleigh Nos. 1, 2 & 4	50			15	65	4		4	69	198			10
Raleigh No. 3	75			20	95	7		7	102	198			15
Wright	90			20	110	5		5	115	172			10
Pack	30			5	35	3		3	38	190			8
Piney No. 1	35			6	41	4		4	45	180			3
Piney No. 2	40			8	48	4		4	52	180			6
" No. 3	30			5	35	5		5	40	180			5
Stonewall No. 4	5			1	6				6	60			2
Terry	25			4	29	3		3	32	100			5
Stonewall	50			5	55	5		5	60	200			11
Beckley	81			27	108	50		50	158	100			8
Mabscott	40			12	52	4		4	56	136			8
Mabscott C. & C. Co.	35			9	44	5		5	49	172			11
McKell C. & C. Co.	9			2	11	2		2	12	46			4
Sidney	25			5	30	2		2	32	117			9
Graham													
Totals	702			187	889	131		131	1,020	167			150
<i>Logan County.</i>													
Monitor		13	4	40	57	8		8	65				6
Gay		17	4	9	30	12		12	42	130			3
Draper	40			20	60	6		6	66	150			6
Island Cr. No. 1		25	6	20	51	4		4	55	144			3
Island Cr. No. 2		75	14	60	149	11		11	160	144			11
Stone Branch	9			3	12	2		2	14	123			3
Totals	49	130	28	152	359	43		43	402	142			32

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.					Ave. No. of days mines were op-erated.	Ave. No. of days ovens were op-erated.	Ave. No. ovens in operation per plant.	No. of horses and mules inside.	
		Inside.		Outside.							
		Pick miners.	Machine miners.	Machine runners & helpers.	Labors.	Total.					Labors.	Coke workers.	Total.
McDowell County.—Continued.											
Hensley No. 1.	Hensley Coal Co.	30			12	42	5		200	6	
Mohawk	Mohawk C. & C. Co.	15	25	8	15	48	3	12	150	3	
Welch	Welch C. & C. Co.	15			10	25	3	3	313	3	
Hemphill		40	14	4	16	74	17	17	254	3	
Nos. 1 & 2.	Oregon Coal Co.				27	63	20	20	83	3	
Zenith Nos. 1 & 2.	Zenith C. & C. Co.	15	5	1	25	46	50	50	180	6	
Page	Page C. & C. Co.		25	4	5	34	10	10	44	4	
Elkhorn	Middle States C. & C. Co.	30			8	38	5	5	290	3	
Helena	Helena Coal Co.	75				75			50	12	
Coalwood Nos. 1, 2, 3 & 4	Virginia Pocahontas C. Co.										
Totals		4,387	197	61	2,190	6,835	1,061	2,273	3,334	10,169	835
Mercer County.											
Mill Creek	Mill Creek C. & C. Co.	90			70	160	15	45	60	220	20
Coaldale		110			80	190	15	25	40	230	18
Buckeye	Buckeye C. & C. Co.	75			40	115	10	25	35	150	15
Caswell	The Pocahontas Consolidated Co.	150			60	210	50	60	110	320	180
Sagamore		100			40	140	30	30	60	200	25
Booth-Bowen	Booth-Bowen C. & C. Co.	104			33	137	23	41	64	201	12
Nos. 1, 2 & 3.	Louisville C. & C. Co.	50	20	10	40	120	15	35	50	170	21
Goodwill	The Goodwill C. & C. Co.	50	7	6	35	98	12	22	34	132	19
Pinnacle	American Coal Co.	105			24	129	28	65	93	222	20
Crane Creek Nos. 1 & 2.		125			39	164	41	62	103	267	22
Crystal	Crystal C. & C. Co.	50	50		15	65	10	20	30	95	18
Thomas	Thomas Coal Co.	75			25	100	11	32	43	143	12
Yukon	Yukon Coal Co.	10			2	12	4	4	4	16	1
Weyanoke	Weyanoke C. & C. Co.	30			7	37	8	8	45	286	10
Spring	Spring C. M. Co.	15	15	4	5	24	5	5	29	200	4
Piedmont	Piedmont Colliery	15			10	25	5	5	30	180	3
Nos. 1 & 2.	Wenonah C. & C. Co.	18			3	18	6	6	24	250	4
Hiawatha	Hiawatha C. & C. Co.	18			7	25	5	5	20	245	4
Smokeless	The Smokeless C. & C. Co.	10			2	12	2	2	14	240	1
Cephas	Cephas Coal Co.	5			7	12	4	4	4	16	1
Totals		1,187	42	20	544	1,733	239	402	761	2,554	242

Mingo County.		10			2	12	3		3	15	100			1
Camp Branch.	Pearl Coal Mining Co.	10			2	12	3		3	15	100			1
Pearl.	"	10			4	14	5		5	19	100			4
Sprigg.	"	20			8	28	6		6	34	189			6
Haggerty.	"	15			6	33	5		5	38	121			2
Rutherford.	Red Jacket Cons. C. & C. Co.	75	4		30	134	15		15	149	280			26
Red Jacket.	"	60	18		40	108	18		18	216	180			35
Maritime.	"	38	6		16	78	12		12	90	180			11
Lick Fork.	"	75			12	87	11		11	98	280			29
Grapevine.	"	65			12	77	10		10	87	280			17
Thacker No. 1.	Thacker C. & C. Co.	80			15	95	20		20	115	257			6
" No. 2.	"	50	16		35	231	25		25	276	282			20
" No. 3.	"	25	60		5	119	15		15	134	282			15
" No. 10.	"	100			20	120	10		10	130	300			3
Lynn.	Glen Alum Coal Co.				5	25	5		5	30	300			13
Nos. 1 & 2.	Nolan Coal Co.	15	70		20	120	10		10	130	275			22
Winnifrede.	War Eagle Coal Co.				40	160	40		40	200	240			5
War Eagle & Pappoose.	Hatfield				5	20	4		4	24	200			5
Hatfield.	Hatfield Colliery Co.	150	25		150	325	25		25	350	300			25
Jackson.	Culross Coal Co.	20	6		6	32	5		5	37	300			3
Mate Creek.	Mate Creek Coal Co.	10			5	25	5		5	30	200			3
Marvin.	Marvin Coal Co.	10	8		8	46	11		11	57	275			5
Nos. 2, 3 & 5.	The Margaret M. Co.	6	14		14	36	6		6	42	243			9
Star.	H. A. Shafer, Lessee.	2	16		10	30	7		7	37	180			7
Cedar.	Cedar Coal Co.	20			5	27	2		2	30	60			5
Coaling Sta. & No. 1 & 2.	Merrimac C. & C. Co.	20	12		5	37	4		4	41	300			3
Williamson.	Williamson C. & C. Co.				4	24	4		4	28	175			3
Sugar Tree.	Goodman C. & C. Co.	20	4		9	25	3		3	28	200			1
Howard.	Howard Colliery Co.				6	30	6		6	36	230			4
Chattahoo.	Chattahoo Colliery Co.	15	15		6	42	12		12	54	265			4
Buffalo.	The Buffalo Collieries Co.	6	8		4	26	3		3	29	265			4
Rawl Nos. 1 & 2.	Rawl C. & C. Co.	20	10		6	22				22				3
No. 1.	The Walnut Hills C. & M. Co.	15			3	23	3		3	26	175			2
Lingooken.	Lingooken Coal Co.				2	17	4		4	21	16			2
Totals		786	227		520	2,241	307		307	2,548	258			302
Wayne County.														
East Lynn No. 1.	East Lynn Coal Co.	15			4	19	5		5	24	337			2
Totals		15			4	19	5		5	24	337			2
Barbour County.														
Junior.	Davis Colliery Co.	45			8	53	6		6	72	117			8
Nos. 1, 2, 3 & 4.	Phillippi C. M. Co.				4	28	11		11	39	190			7
Arden.	Tygarts River C. Co.		20		10	41	10		10	51	150			30
Berryburg.	The Southern C. & Trans. Co.	43	30		82	237	65		65	302	253			3
Laurel Creek.	Laurel Creek Coal Co.	30	82		5	35	4		4	39				15
No. 1 Shaft.	The Century Coal Co.	100	35		45	194	25		25	219	240			3
Lillian.	Freepoot Smokeless Coal & Coking Co.	10	14		2	12	1		1	13	35			3

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1905.

NAME OF MINE.	NAME OF COMPANY.	Employees.						Outside.			Sum Total.	Avg. No. of days mines were op-erated.	Avg. No. of ovens in operation per plant.	No. of horses and mules inside.
		Inside.			Labors.	Total.	Coke Workers.	Total.						
		Pick miners.	Machine miners.	Machine runners & helpers.										
	<i>Barbour County.—Continued.</i>													
	Adna.....	12			2	14	3		3	17	150			1
	Clements.....	10			2	12	4		4	16	156			
	Sara.....	4			5	5	1		1	6	149			
	Volga No. 1.....			4	6	10				10	40			
	Totals.....	254	162	58	167	641	130	13	143	784	214	164	45	73
	<i>Grant County.</i>													
	No. 22.....		80	26	42	148	31		31	179	279			14
	No. 33.....		2	1	5	4	1		1	5	80			1
	Buffalo Creek No. 1.....	51				56	4		4	60	280			2
	Totals.....	51	82	27	48	208	36		36	244	275			17
	<i>Mineral County.</i>													
	Davis C. & C. Co.....	23			7	7	2		2	9	61			2
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TABLE SHOWING AVERAGE PRICE PAID PICK MINERS PER YEAR AND MONTH FROM 1897 TO 1905, INCLUSIVE.

YEARS.	Average earnings of each pick miner per		Average price per ton of 2,240 lbs. received for pick mining. run-of-mine.
	Year.	Month.	
1897.....	\$ 275.58	\$ 22.96	\$.35 1-5
1898.....	316.39	26.36	.33 9-10
1899.....	367.84	30.65	.36 12
1900.....	451.77	37.65	.41 06
1901.....	459.56	38.29	.44 ½
1902.....	533.56	44.46	.47 ½
1903.....	499.06	41.59	.49 ½
1904.....	484.96	40.41	.49 ½
1905.....	508.01	42.17	.47

WAGES PAID AND SELLING PRICE OF COAL AND COKE, FOR THE YEAR ENDING JUNE 30th, 1905.

COUNTY.	Paid Pick Miners Per Ton of 2,240 lbs.			Trackmen's daily wages.	Selling Price of	
	Run-of-Mine.		Screen- ed.		Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)
	Room.	Heading.					Room.
Brooke.....	\$.60	\$.....	\$.95	\$ 2.44	\$.99	\$.....
Hancock.....	.56		.90	2.14	1.25	
Harrison.....	.44	.54		2.17	.86	
Marion.....	.44	.55		2.11	.89	1.59
Monongalia.....	.44	.55		2.17	.96	1.58
Marshall.....	.56		1.01	2.44	1.05	
Ohio.....	.62		.86	2.42	1.20	
Clay.....			.79	2.12	1.34	
Kanawha.....	.52		.85	2.15	1.03	1.88
Lincoln.....	.55			2.13	.78	
Mason.....	.60		.78	1.88	1.18	
Putnam.....			.73	2.03	1.15	
Fayette. { Kanawha River Series.....	.48	.58	.87	2.10	.92	1.99
{ New River Proper.....	.50	.55		2.15	.97	2.01
{ Loup Creek.....	.40			2.19	1.02	1.79
Nicholas.....			.87	2.09	.89	
Raleigh.....	.46			2.24	.92	
Logan.....	.39			1.94	.85	
McDowell. { Pocahontas No. 3.....	.38	.45		1.91	.95	1.64
{ Pocahontas Thin Vein.....	.41	.47		1.91	.88	1.80
Mercer.....	.38	.44		1.82	.93	1.56
Mingo.....	.43			1.90	.88	
Wayne.....	.45			1.50	.73	
Barbour.....	.35	.45		1.95	.78	1.75
Grant.....	.55			2.25	1.12	
Mineral.....	.56	.65		2.16	1.09	
Preston.....	.44	.54		2.04	.90	1.75
Randolph.....	.42	.50		2.05	.83	1.67
Taylor.....	.36	.44		2.02	.83	
Tucker.....	.45			2.10	1.06	1.76
Averages.....	.47	.52	.86	2.05	.97	1.75

SUMMARY OF THE WAGES PAID MACHINE MINERS, RUNNERS AND HELPERS, 1905.

COUNTY.	Machine Miners Paid Per					Machine Runners		Machine Helpers	
	Day.	Ton of 2,240 lbs. Run of Mine.		Ton of 2,240 lbs. Screened.		Wages	Paid by	Wages	Paid by
		Room.	Head- ing.	Room.	Head- ing.				
Brooke.....	\$.....	\$.38	\$.....	\$.....	\$.55	\$.....	Long Ton (room.)	\$.06	Long Ton (room.)
Hancock.....					.50		Day	2.50	Day
Harrison.....		.28	.35				Long Ton (room.)	.06	Long Ton (room.)
Marion.....		.28	.35				Long Ton (Heading.)	.06	Long Ton (Heading.)
Monongalia.....							Long Ton (room.)	2.00	Day
Marshall.....		.28	.35				Long Ton (Heading.)	2.00	Day
Clay.....		.30	.35		.54		Long Ton (Screened)	.08	Long Ton (Screened)
Kanawha.....		.26	.31				Day	1.86	Day
Putnam.....							Foot	.06	Foot
Fayette.....		.25	.31				Long Ton (room.)	.08	Long Ton (room.)
Kanawha River Series.....							Long Ton (Heading.)	.09	Long Ton (Heading.)
							Day	2.14	Day
								2.22	2.22
New River Proper.....		.33	.42				Long Ton (room.)	.06	Long Ton (room.)
		.31	.41				Long Ton (Heading.)	.07	Long Ton (Heading.)
							Foot (room)	.08	Foot
Long Creek.....	1.60						Foot	2.37	Foot
							Day	1.94	Day
							Day	1.90	Day

SUMMARY OF THE WAGES PAID MACHINE MINERS, RUNNERS AND HELPERS, 1905.—Continued.

COUNTY.									
Machine Miners Paid Per						Machine Runners		Machine Helpers	
	Day.	Tons of 2 240 lbs. Run-of-Mine.		Tons of 2,240 lbs. Screened.		Wages	Paid by	Wages	Paid by
		Room.	Head- ing.	Room.	Head- ing.				
Nicholas.....	\$.....	\$.30	.35	\$.40	\$.49	\$ 2.28	Day	\$ 2.00	Day
Logan.....	.....	.28	.38	.....	.....	2.44	"	2.03	"
McDowell.....	{ Pocahontas No. 3 Pocahontas Thin Vein.	.22	.....	.....	.....	2.43	"	1.84	"
		.33	.....	.....	.....	2.25	"	1.71	"
Mercer.....	.....	.21	.....	.....	.....	2.37	"	1.73	"
Mingo.....	.....	.24	.37	.....	.....	{ 2.58	"	1.86	"
Barbour.....		.26	.35	.....	.....	.25	Hour	.17	Hour
		.....	.....	.....	.....	.06	Long Ton (room.)	.....	.....
Grant.....	.....	.29	.....	.....	.....	2.38	Day	1.95	Day
Preston.....		.27	.32	.....	.....	.08	Long Ton	.05	Long Ton
		.....	.....	.....	.....	.06	Long Ton (room.)	.05	Long Ton (room.)
Taylor.....		.24	.29	.....	.....	.09	Long Ton (Heading.)	1.75	Day
		.....	.....	.....	.....	2.00	Day	.20	Hour
Tucker.....		.31	.....	.....	.....	.12	Hour	.05	Long Ton
		.....	.....	.....	.....	.06	Long Ton Day	1.80	Day
Averages.....	1.92%	.28	.35	.48	.49%	.07	Long Ton (room.)	.06	Long Ton (room.)
		.....	.....	.....	.....	.09%	Long Ton (Heading.)	.08	Long Ton (Heading.)
		.....	.....	.....	.....	.05	Foot (room.)	.04	Foot (room.)
		.....	.....	.....	.....	.08	" (Head.)	.....	.....
		.....	.....	.....	.....	2.36	Day	1.96	Day
		.....	.....	.....	.....	.18%	Hour	.18%	Long Ton Screened.
		.....	.....	.....	.....	.11	Long Ton Screened.	.08	Long Ton Screened.

STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA, HANDLED
AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE MONTHS ENDING JUNE
30th, 1905.

(Quantities are expressed in tons of 2,000 lbs.)

Name of Railroad Company.	Total tons handled.		Tons originating on the line.		Tons delivered to the line by other railroads in West Va.		Tons delivered to other lines in West Virginia.		Railroads and docks to which product is delivered for distribution.	Points of destination of the product.	
	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.		East.	West.
Baltimore & Ohio.....	7,864,306	630,373	6,326,063	241,072	1,538,225	378,701	4,038	none	no data...	Philadelphia, Baltimore & Atlantic Coast.	Chicago, Lake points and Northwest.
West Virginia Central & Pittsburg...	1,821,600	286,235	1,782,751	284,625	38,939	1,610	43,687	11,035	102,938	Pt Richmond, Pt. Reading, Port Covington, Curtis Bay, P. & R. Ry. & Penna. Ry.	Chicago, Ill.
Kanawha & Michigan...	1,805,130	118,184	1,642,893	115,253	222,237	2,951	none...	none	no data...	T. & O. C. & Hooking Valley Docks.	O., Ind., & Mich. cities, Chicago and west, Milwaukee, Duluth & other ports on Lakes Sup. & Mich.
Norfolk & Western....	8,227,419	1,671,919	8,004,427	1,671,353	222,992	566	210	24	no data...	Lambert Point Piers, S. A. Line, Southern R. Y., O. C. Lines, Toledo & Sandusky Docks, A. C. L. & L. & N. R. R.	Foreign ports & Atlantic Coast; Virginia, & North & South Carolina points.
Chesapeake & Ohio.....	7,700,811	313,384	7,400,780	312,700	300,031	684	129,147	7,469	478,072	C. & O. Docks at Newport News, Va., & various rail-ways.	Cincinnati, Lake points, Chicago & western cities.
Totals	27,479,358	3,010,065	25,156,934	2,625,563	2,322,424	384,512	177,082	18,519	581,010	622	Cincinnati, Louisville, Chicago, Toledo, St. Louis &c.

NUMBER OF KEGS OF POWDER USED AT THE MINES, BY COUNTIES, FOR 1905.

DISTRICT.	COUNTY.	No. of operations reporting.	Tons of coal (tons of 2,240 lbs.)	Kegs of powder used.	Tons per keg used.	Cost per keg to miner.
First	Brooke	2	80,125	1,240	65	\$ 1.64
First	Hancock	2	58,029	850	68	1.58
First	Harrison	36	2,417,755	27,369	88	1.70
First	Marion	19	2,881,701	34,030	84	1.70
First	Monongalia	5	178,752	3,448	52	1.72
First	Marshall	4	317,381	2,460	129	1.68
First	Ohio	4	48,769	551	88	1.55
Second	Clay	3	55,011	1,192	46	1.75
Second	Kanawha	67	2,405,616	39,700	60	1.75
Second	Lincoln	1	4,995	294	17	1.75
Second	Mason	4	41,608	2,030	20	1.86
Second	Putnam	7	310,576	8,445	36	1.75
Third	Fayette	86	5,275,480	75,644	69	1.98
Third	Nicholas	6	45,720	1,547	23	1.73
Third	Raleigh	13	432,173	4,292	100	2.08
Fourth	Logan	6	127,616	2,231	57	1.93
Fourth	McDowell	41	4,929,045	70,054	70	1.98
Fourth	Mercer	16	1,462,611	31,014	47	2.00
Fourth	Mingo	28	1,285,392	23,651	54	1.82
Fifth	Barbour	10	555,858	7,924	70	1.56
Fifth	Grant	3	167,053	4,210	39	1.93
Fifth	Mineral	5	81,321	1,605	51	1.66
Fifth	Preston	8	423,309	5,248	81	1.54
Fifth	Randolph	5	414,829	6,599	63	1.63
Fifth	Taylor	5	246,702	3,850	64	1.58
Fifth	Tucker	9	961,293	14,191	68	1.96
Totals		395	25,208,720	373,669	67	1.76

STEAM BOILERS AT MINES—1905.

DISTRICT.	COUNTY.	No. of mines having boilers.	No. of boilers insured.	No. of boilers not insured.	Total No. of boilers.
First	Brooke	1	1		1
First	Hancock	1	1		1
First	Harrison	29	17	42	59
First	Marion	17	13	43	56
First	Monongalia	4	3	2	5
First	Marshall	5	1	16	17
First	Ohio	1	2		2
Second	Clay	2	1	1	2
Second	Kanawha	58	66	35	101
Second	Mason	3		6	6
Second	Putnam	5	7	5	12
Third	Fayette	71	151	21	172
Third	Nicholas	5		6	6
Third	Raleigh	8	13		13
Fourth	Logan	4	8	2	10
Fourth	McDowell	38	123	18	141
Fourth	Mercer	14	41	8	49
Fourth	Mingo	19	26	10	36
Fifth	Barbour	6	11	6	17
Fifth	Grant	1	6		6
Fifth	Mineral	5	2	4	6
Fifth	Preston	13	21	4	25
Fifth	Randolph	4	8		8
Fifth	Taylor	2	3	2	5
Fifth	Tucker	9	22	2	24
Totals		325	547	233	780

SUMMARY OF THE NUMBER OF MINE LOCOMOTIVES IN THE
STATE—1905.

DISTRICT.	COUNTY.	No. mines using loco- motives.	Locomotives.			
			Steam.	Elec.	Comp. Air.	Sum total.
First.....	Brooke.....	3	1	2		3
First.....	Hancock.....	3	1			1
First.....	Harrison.....	9	1	9		10
First.....	Marion.....	7	1	11		12
First.....	Monongalia.....	1		1		1
First.....	Marshall.....	3		7		7
Second.....	Kanawha.....	45	3	49		52
Second.....	Putnam.....	4		7		7
Third.....	Fayette.....	62	19	68	1	88
Third.....	Nicholas.....	4	1	3		4
Third.....	Raleigh.....	10	3	8		11
Fourth.....	McDowell.....	44	35	34	2	71
Fourth.....	Mercer.....	17	20	9		29
Fourth.....	Mingo.....	9	3	11		14
Fifth.....	Barbour.....	3		6		6
Fifth.....	Grant.....	1		1		1
Fifth.....	Mineral.....	3		2		2
Fifth.....	Preston.....	4		5		5
Fifth.....	Randolph.....	2		3		3
Fifth.....	Taylor.....	1		3		3
Fifth.....	Tucker.....	8	2	14		16
Totals.....		243	90	253	3	346

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES—
1905.**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Brooke County</i>				
The La Belle Coal Co.....	Lewis		1	
Lewis-Findley Coal Co.....	Locust Grove.....	1		
La Belle Iron Work.....	La Belle.....		1	
Totals.....		1	2	
<i>Hancock County.</i>				
The Marquet C. Co.....	Nos. 1, 2 & 3.....		1	
Totals.....			1	
<i>Harrison County.</i>				
Clarksburg Fuel Co.....	Two Lick.....		1	
Fairmont Coal Co.....	Enterprise.....		1	
" " " ".....	Viropa.....		1	
" " " ".....	Gypsy.....		2	
Pittsburg & Fairmont Fuel Co.....	Perry.....		1	
Cook C. & C. Co.....	Girard No. 1.....		1	
Chieftain Coal Co.....	Chieftain Nos. 1 & 2.....		2	
Pitcairn C. Co. of W. Va.....	Pitcairn.....	1		
Totals.....		1	9	
<i>Marion County.</i>				
Fairmont Coal Co.....	New England.....	1	3	
" " " ".....	Gaston.....		1	
" " " ".....	Monongah No. 3.....		2	
" " " ".....	" No. 2.....		2	
" " " ".....	" No. 6.....		1	
" " " ".....	" No. 8.....		1	
Kilarm C. & C. Co.....	Kilarm.....		1	
Totals.....		1	11	
<i>Monongalia County.</i>				
Fairmont Coal Co.....	Beechwood.....		1	
Totals.....			1	
<i>Marshall County.</i>				
Hitchman C. & C. Co.....	Hitchman.....		2	
Wheeling Steel & Iron Co.....	Benwood.....		4	
Glendale C. Co.....	Glendale.....		1	
Totals.....			7	
<i>Kanawha County.</i>				
The Elk Coal Co.....	Turner.....		1	
Campbells Creek C. Co.....	No. 1.....		2	
Quincy Coal Co.....	Quincy.....	1	1	
Kanawha & Hocking C. & C. Co.....	No. 101.....	1	1	
" " " ".....	Nos. 103 & 104.....	1	1	
" " " ".....	No. 105.....		1	
" " " ".....	No. 106.....		1	
" " " ".....	No. 109.....		1	
" " " ".....	No. 110.....		1	
Kellys Creek Colliery Co.....	No. 1.....		1	
Cannelton C. Co.....	Cannelton No. 2.....	1	1	
The Marmet Coal Co.....	Butler.....		3	
" " " ".....	Monarch.....		2	
Winifrede Coal Co.....	Winifrede Gas.....		1	
" " " ".....	" North.....		1	
" " " ".....	" West.....		1	
Coalburg Colliery Co.....	Ronda.....		1	
Stevens Coal Co.....	Acme.....		1	
" " " ".....	Keystone.....		2	
" " " ".....	Empire.....		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES—
1905.—Continued.

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Kanawha County.—Continued.</i>				
Shamrock Coal Co.	Shamrock.		1	
Dry Branch C. Co.	Nos. 2 & 3.		1	
Belleclare C. Co.	Belleclare.		1	
New Diamond C. Co.	Black Diamond.	1		
Cardiff Coal Co.	Oakley.		1	
	Climax.		1	
M. T. Davis C. Co.	Davis.		1	
LaMont M. Co.	LaMont No. 3.		1	
Carbon Coal Co.	South.		1	
Raccoon Fork C. Co.	Raccoon Fork.		2	
Cabin Creek M. Co.	Cabin Creek.		2	
Belmont Coal Co.	Coalburg & Lewiston.		2	
Equitable Coal Co.	Coalburg & Kanawha.		2	
Scranton Splint C. Co.	Scranton.		1	
Paint Creek C. Co.	Paint Creek.		1	
Imperial Colliery Co.	Imperial No. 1.		1	
Chesapeake M. Co.	Chesapeake No. 1.	1	1	
	Chesapeake No. 2.	1		
Montgomery Coal Co.	Kanawha.		1	
Black Band C. & C. Co.	Black Band No. 1.		2	
Morris Creek C. Co.	Morris Creek.		1	
Totals.		3	49	
<i>Putnam County.</i>				
Plymouth C. & M. Co.	Plymouth.		1	
The Otto Marnet C. & M. Co.	Big Otto Nos. 1 & 2.		3	
Black Betsey C. & M. Co.	Black Betsey.		3	
Totals.			7	
<i>Fayette County.</i>				
Kanawha & Hocking C & C. Co.	No. 111.		1	
	No. 112.		1	
	No. 114.		1	
	No. 115.		1	
	No. 117.		1	
Columbus Iron & Steel Co.	No. 1.		3	
Kanawha Gas Coal Co.	Kanawha Gas.		1	
Boomer C. & C. Co.	Boomer No. 1.		2	
	Boomer No. 2.		2	
	Boomer No. 3.		1	
Gordon C. & C. Co.	Eureka No. 2.		1	
St. Clair Colliery Co.	No. 2.		1	
The Carver Bros. Co.	Mecca Gas.		1	
	Nos. 2 & 3.		2	
	Eagle, Cal. & No. 1.		2	
Economy Fuel Co.	Economy.		1	
W. R. Johnson.	No. 5 Splint.	1		
The Mt. Carbon Co. Ltd.	Vulcan.			1
	Excelsior.		2	
The Gt. Kanawha Colliery Co., Ltd.	Brewster.		1	
Cardiff Coal Co.	Kimberly Nos. 1 & 2.		1	
The Gauley Mountain C. Co.	Gauley Mountain.	4	3	
Loup Creek Colliery Co.	Eagle & Ansted.	1		
Isabel Coal & Coke Co.	Eln.o.		1	
	Sunnyside.		1	
Low Moor Iron Co., of Va.	Kay Moor No. 1.		2	
Nuttallburg Coal & Coke Co.	Nuttallburg.		1	
Brown Coal Co.	Brown.	1		
Chapman Iron, Coal & Coke Co.	North Victoria.	1		
	South Victoria.		1	
	Elverton.		1	
The New River Smokeless C. Co.	Red Ash.		2	
	Rush Run.		2	
	Sun Nos. 1 & 3.		2	
	Sun No. 2.		2	

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES—
1905.—Continued.**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Fayette County.—Continued.</i>				
Fire Creek C. & C. Co.	Fire Creek.	1		
The Thurmond C. Co.	Thurmond No. 1.		2	
The Beechwood C. & C. Co.	Beechwood No. 2	1		
Alaska C. & C. Co.	Alaska.	1		
Ridgeview C. Co.	Ridgeview.	1		
Ephraim Creek C. & C. Co.	Buffalo & Slater.		5	
Harvey C. & C. Co.	Harvey.	2		
Prudence C. Co.	Prudence.		2	
Collins Colliery Co.	Collins No. 1 & 2.		5	
Whipple Colliery Co.	Whipple.		2	
McKell C. & C. Co.	Derryhale.		1	
	Kilsyth.		2	
The White Oak Fuel Co.	Scarbro No. 1.		2	
Greenwood Coal Co.	Greenwood.	2		
Hemlock Hollow C. Co.	Hemlock.	1		
New River & Pocahontas Cons. C. Co.	No. 1.	1		
	No. 3.		1	
	No. 4.		2	
Lynchburg Colliery Co.	Lynchburg.	1		
Totals.		19	68	1
<i>Nicholas County.</i>				
Bell Creek Coal Co.	Bell Creek.	1		
The Columbus Coal Co.	No. 1.		1	
The Cambria M. Co.	Cambria.		1	
The Gauley Co.	Greendale.		1	
Totals.		1	3	
<i>Raleigh County.</i>				
The New River Smokeless C. Co.	Royal.		1	
	Lanark.	1	1	
Raleigh C. & C. Co.	Raleigh Nos. 1, 2 & 4.		2	
	No. 3.		1	
The Wright C. & C. Co.	Wright.		1	
Piney Colliery.	Piney No. 1.		1	
	No. 3.	1	1	
Stonewall C. & C. Co.	Stonewall No. 3.	1		
Totals.		3	8	
<i>McDowell County.</i>				
Tidewater C. & C. Co.	Tidewater.		3	
Peerless C. & C. Co.	Peerless.	2		1
The Empire C. & C. Co.	Empire.		1	
Shawnee C. & C. Co.	Shawnee.		2	
Eureka C. & C. Co.	Eureka.	2		
Pulaski Iron Co.	Pulaski.	1	2	
Keystone C. & C. Co.	Keystone Nos. 1 & 2.	3		
Algoma C. & C. Co.	Piney, Big 4 & North Fork.	1	2	
Gilliam C. & C. Co.	Gilliam.		2	
Roanoke C. & C. Co.	Roanoke.	1		
Indian Ridge C. & C. Co.	Indian Ridge.		1	
Arlington C. & C. Co.	Arlington.		1	
Greenbrier C. & C. Co.	Greenbrier.		2	
McDowell C. & C. Co.	McDowell.	3		
Ashland C. & C. Co.	Ashland Nos. 1 & 2.	3		
Elk Ridge C. & C. Co.	Elk Ridge.	2		
Lynchburg C. & C. Co.	Lynchburg.	2		
Powhatan C. & C. Co.	Powhatan.	2		
Upland C. & C. Co.	Upland Nos. 1 & 2.		1	
Houston C. & C. Co.	Houston Nos. 1 & 2.	1	1	
Cozer C. & C. Co.	Crozer Nos. 1 & 2.		3	
Turkey Gap C. & C. Co.	Turkey Gap.	4		

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES—
1905.—Continued.**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>McDowell County.—Continued.</i>				
The Pocahontas Consolidated Co.	Shamokin	1	1	
Elkhorn C. & C. Co.	Cherokee	1		
Pocahontas C. M. Co.	Elkhorn	1		
Pocahontas Collieries Co.	Tug River		1	
United States C. & C. Co.	West	5		
	No. 1 & Shaft		2	
	No. 2		2	
	No. 3		2	
	No. 6		1	
Oregon Coal Co.	Nos. 1 & 2			1
Zenith C. & C. Co.	Zenith Nos. 1 & 2		1	
Page C. & C. Co.	Page	1		
Middle States C. & C. Co.	Elkhorn		2	
Totals		35	34	2
<i>Mercer County.</i>				
Mill Creek C. & C. Co.	Mill Creek	5		
	Coaldale		3	
Buckeye C. & C. Co.	Buckeye	2		
The Pocahontas Consolidated Co.	Caswell	4		
Booth-Bowen C. & C. Co.	Booth-Bowen	4		
Louisville C. & C. Co.	Louisville Nos. 1, 2 & 3.		2	
The Goodwill C. & C. Co.	Goodwill	2		
American Coal Co.	Pinnacle		1	
	Crane Creek Nos. 1 & 2		2	
Crystal C. & C. Co.	Crystal		1	
Piedmont Colliery	Piedmont	1		
Wenonah C. & C. Co.	Nos. 1 & 2	1		
Hiawatha C. & C. Co.	Hiawatha	1		
Totals		20	9	
<i>Mingo County.</i>				
Red Jacket Cons. C. & C. Co.	Rutherford		2	
	Red Jacket		6	
	Maritime		1	
Thacker C. & C. Co.	Thacker No. 2	1		
	Thacker No. 3	1		
Glen Alum C. Co.	Nos. 1 & 2		2	
War Eagle C. Co.	War Eagle & Pappoose	1		
Totals		3	11	
<i>Barbour County.</i>				
Philippi C. M. Co.	Philippi Nos. 1, 2, 3 & 4		2	
The Southern Coal & Trans. Co.	Berryburg		2	
The Century Coal Co.	No. 1		2	
Totals			6	
<i>Grant County.</i>				
Davis C. & C. Co.	No. 22		1	
Totals			1	
<i>Mineral County.</i>				
Davis C. & C. Co.	No. 19	1		
Big Vein C. Co. of W. Va.	Big Vein & Four Foot	1		
Totals		2		
<i>Preston County.</i>				
Austen C. & C. Co.	Austen No. 1		2	
Merchants Coal Co.	Tunnelton Nos. 2 & 3		2	
Atlantic C. & C. Co.	Atlantic Nos. 1 & 2		1	
Totals			5	

TABLE GIVING THE NUMBER OF MINE OPENINGS; ACRES OF COKE OVENS; NUMBER OF COAL WORKED OUT;
NUMBER OF MULES AND HORSES USED AT MINES; NUMBER OF MEN KILLED AND INJURED AND
KINDS OF VENTILATION FOR THE YEAR ENDING JUNE 30th, 1905.

DISTRICT.	COUNTY.	No. of Mine Open- ings.	Total No. of Coke Ovens.	Acres of Coal work- ed out from Com- mercial mines.	No. of men killed.	No. of men injured non-fatally.	No. of Horses and Mules used at Mines.	No. of Fans.	No. of Furnaces.	Nos. of Natural Ventilation.	Fire Baskets, Air shafts, stacks &c.
First	Brooke	8	...	33.13	1	1	22	1	4	...	...
First	Hancock	5	...	13.61	...	...	6	...	1	...	...
First	Harrison	46	110	301.42	13	24	417	37	5	1	2
First	Marion	25	1,048	376.94	13	30	349	25	2	3	...
First	Monongalia	5	166	28.83	...	...	27	1	1	...	...
First	Marshall	6	...	57.20	2	8	29	6	...	...	...
First	Ohio	6	...	14.42	...	...	24	3	3	...	...
Second	Clay	6	...	11.81	...	...	16	1	...	...	...
Second	Kanawha	137	102	538.23	21	34	769	63	53	12	...
Second	Lincoln	2	...	95	...	...	5	...	2	...	...
Second	Mason	9	...	14.03	...	...	43	3	3	1	2
Second	Putnam	9	...	46.07	2	...	74	6	2	1	...
Third	Fayette	160	3,273	1,205.17	71	48	1,493	71	44	40	...
Third	Nicholas	7	...	9.95	...	...	13	2	3	...	...
Third	Raleigh	24	80	125.66	4	5	150	6	1	4	3
Fourth	Logan	8	...	17.75	...	...	32	2	...	...	...
Fourth	McDowell	78	7,923	935.38	37	39	835	57	16	1	1
Fourth	Mercer	28	2,115	256.02	7	20	242	19	7	1	...
Fourth	Mingo	44	...	207.44	7	13	302	8	25	2	1
Fourth	Wayne	1	...	5.04	...	...	2	...	1	...	...
Fifth	Barbour	17	51	71.12	2	4	73	8	5	...	1
Fifth	Grant	1	...	29.49	2	...	17	2	1	...	...
Fifth	Mineral	15	...	60.38	3	...	100	5	2	6	2
Fifth	Preston	21	573	118.80	5	1	124	12	1	1	1
Fifth	Randolph	8	520	42.79	...	...	37	4	1	...	...
Fifth	Taylor	6	...	25.50	...	3	52	1	2	3	...
Fifth	Tucker	11	719	144.69	4	4	119	9	...	...	...
Totals	Totals	696	16,680	4,691.82	194	250	5,272	353	297	78	15

IMPROVEMENTS.

*IMPROVEMENTS REPORTED MADE AT THE MINES DURING THE
YEAR ENDING JUNE 30th, 1905.*

COUNTY.	New Plants.	Power Plants.	Coke Ovens.	Fans.	Furnaces.	Tipples.	Additional Openings.	Totals.
Brooke.....	...	2	...	...	...	1	1	4
Hancock.....	...	...	...	...	...	...	1	1
Harrison.....	1	...	...	1	...	2	...	4
Marion.....	2	1	17	2	...	1	...	23
Monongalia.....	1	1	...	...	...	...	...	2
Marshall.....	1	1	...	...	...	...	...	2
Clay.....	...	...	...	1	...	1	...	2
Kanawha.....	6	6	...	3	4	12	5	36
Mason.....	...	1	...	...	...	1	...	2
Putnam.....	1	...	...	1	...	1	...	3
Fayette.....	4	6	589	6	4	7	4	620
Nicholas.....	1	2	...	1	...	1	3	8
Raleigh.....	2	1	...	1	...	2	...	6
Logan.....	2	1	...	...	1	2	...	6
McDowell.....	2	5	667	7	...	6	2	689
Mercer.....	2	...	40	1	1	1	...	45
Mingo.....	3	4	...	2	1	2	3	15
Wayne.....	1	...	...	...	...	1	...	2
Barbour.....	2	1	...	1	2	3	...	9
Mineral.....	1	...	...	2	...	1	1	5
Preston.....	...	1	100	1	...	2	2	106
Tucker.....	...	...	...	1	...	...	...	1
Totals.....	32	33	1,413	31	13	47	22	1,591

STRIKES.

*SUMMARY OF THE STRIKES AT COAL MINES IN WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.*

DISTRICT.	COUNTY.	Total number of mines reporting strikes.	Total No. of employees thrown out of employment by strike.	No. of companies reporting in full.	No. of companies reporting loss to employees.	Total loss reported to employees.	No. of companies reporting loss to operators.	Total loss reported to operators.
First.....	Marshall.....	1	66	.....	.....	\$.....	.....	\$.....
Second.....	Kanawha.....	36	2,009	15	17	75,410.00	17	49,350.00
Second.....	Mason.....	2	70	.....	.....	.....	.....	.....
Third.....	Fayette.....	1	75	1	1	70.00	1	20.00
Fifth.....	Preston.....	1	80	.....	1	7,500.00	.....	.....
Totals.....		41	2,300	16	19	\$ 82,980.00	18	\$ 49,370.00

STRIKES AT THE COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30th, 1905.

NAME OF MINE.	Date of		Termination.	Were works closed in consequence.	Length of time closed. (Working Days.)	Cause or object of strike.	How was strike settled.	Loss to employees.	Loss to operators.
	Beginning.	End.							
Marshall County									
Benwood	66	...	...	...	few	Disagreement as to scale.	Settled in favor of men	\$	\$
Kanawha County									
Belmont	125	125	May 20, 1904	Sep. 26, 1904	Yes	Miners desired run-of mine basis.	Men returned to work.	12,000	5,000
La Mont No. 3	25	15	Oct. 5, 1904	Jan. 3, 1905	Pt	Discharge of two union men.	By employing non-union men.	2,000	3,000
La Mont No. 1 & 2	27	15	Oct. 5, 1904	Apr. 1, 1905	Pt	Discharge of two union men.	By employing non-union men.	...	...
Holly	50	50	Oct. 13, 1904	Dec. 31, 1904	Yes	To compel employment of union men only.	To compel employment of union men only.	...	...
Caledonia	30	30	Oct. 25, 1904	Jan. 1, 1905	Yes	To unionize the district.	By employing non-union men.	2,000	500
Cabin Creek	200	1	Oct. 25, 1904	Nov. 21, 1904	Yes	Re-instatement of discharged checkweighman.	By employing non-union men.	2,000	500
Shamrock	40	1	Oct. 27, 1904	Nov. 21, 1904	Yes	Sympathy with Cabin Creek.	Demand withdrawn.	5,000	1,200
Thistle	55	1	Oct. 27, 1904	Dec. 13, 1904	Yes	Sympathy with Cabin Creek.	Called off.	1,200	300
Raccoon Fork	95	1	Oct. 27, 1904	Nov. 21, 1904	Yes	Sympathy with Cabin Creek.	Called off.	3,500	1,000
Red Warrior	50	45	Nov. 1, 1904	Jan. 15, 1905	Yes	To compel employment of union men only.	Called off.	2,000	500
Carbon South	100	...	Nov. 11, 1904	Nov. 22, 1904	Yes	To compel employment of union men only.	By employing non-union men.	...	...
Carbon North	60	...	Nov. 11, 1904	Nov. 22, 1904	Yes	To compel employment of union men only.	By employing men who would work.	7,000	4,000
Republic East	45	...	Nov. 11, 1904	Nov. 22, 1904	Yes	To compel employment of union men only.	By employing men who would work.	8,000	4,000
Republic West	18	...	Nov. 11, 1904	Nov. 22, 1904	Yes	To compel employment of union men only.	By employing men who would work.	2,000	1,000
							By employing men who would work.	1,500	750

DIRECTORY OF THE MINES.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

FIRST DISTRICT, I. M. KELLEY, INSPECTOR.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
1	Brooke	*Blanche	drift	Panhandle Coal Co.	Colliers.
2	"	*Gilchrist or Wiota	drift	Alex. Gilchrist & Sons Coal Co.	Wellsburg
3	"	Lewis	drift	The La Belle Coal Co.	New Cumberland
4	"	*Bowman	drift	The La Belle Coal Co.	New Cumberland
5	"	No. 1.	drift	Beech Bottom Coal Co.	Wellsburg
6	"	Locust Grove	drift	Lewis-Findley Coal Co.	Colliers
7	"	*Wellsburg	drift	Wellsburg Coal Co.	Wellsburg
8	"	La Belle	shaft	La Belle Iron Works	Steubenville, O.
9	Hancock	Porter No. 1	drift	M. M. Cullen	New Cumberland
10	"	No. 1	drift	The Marquet Coal Co.	New Cumberland
11	"	No. 2	drift	The Marquet Coal Co.	New Cumberland
12	"	No. 3	drift	The Marquet Coal Co.	New Cumberland
13	"	*Brenneman	drift	Congo Coal Co.	New Cumberland
14	Harrison	Pinnickinnick	slope	Clarksburg Fuel Co.	Fairmont
15	"	Fall Run	drift	Clarksburg Fuel Co.	Fairmont
16	"	Dixie	drift	Clarksburg Fuel Co.	Fairmont
17	"	Two Lick	drift	Clarksburg Fuel Co.	Fairmont
18	"	Interstate	drift	Clarksburg Fuel Co.	Fairmont
19	"	O'Neil Nos 1 & 3	2 dfts	Clarksburg Fuel Co.	Fairmont
20	"	O'Neil No. 2	drift	Clarksburg Fuel Co.	Fairmont
21	"	Enterprise	slope	Fairmont Coal Co.	Fairmont
22	"	Viropa	drift	Fairmont Coal Co.	Fairmont
23	"	Ehlen	drift	Fairmont Coal Co.	Fairmont
24	"	Solon	drift	Fairmont Coal Co.	Fairmont
25	"	*Gypsy	drift	Fairmont Coal Co.	Fairmont
26	"	*Maulsby	drift	Fairmont Coal Co.	Fairmont
27	"	Meadowbrook	drift	Fairmont Coal Co.	Fairmont
28	"	Globe	drift	Fairmont Coal Co.	Fairmont
29	"	*Glen Falls	drift	Fairmont Coal Co.	Fairmont
30	"	Dunham	drift	Fairmont Coal Co.	Fairmont
31	"	Lynch	drift	Fairmont Coal Co.	Fairmont
32	"	Reynoldsville	drift	Fairmont Coal Co.	Fairmont
33	"	Columbia	drift	Fairmont Coal Co.	Fairmont
34	"	Ocean	drift	Fairmont Coal Co.	Fairmont
35	"	Riverdale	drift	Fairmont Coal Co.	Fairmont
36	"	Perry No. 1	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
37	"	Perry No. 2	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
38	"	Perry Coaling Station	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
39	"	Pooz	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
40	"	Lucas	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
41	"	Fairmore	drift	Fairmont & Baltimore Coal & Coke Co.	Adamston
42	"	Girard No. 1	drift	Cook Coal & Coke Co.	Meadowbrook
43	"	Erie	drift	Meadow Brook Coal & Coke Co.	Fairmont
44	"	Waldo No. 1	drift	Madeira-Hill-Clark Coal Co.	Wilsonburg
45	"	Waldo No. 2	drift	Madeira-Hill-Clark Coal Co.	Wilsonburg
46	"	Cork	drift	Cook & Hart Coal Co.	Fairmont
47	"	Rosebud	drift	Rosebud Coal Co.	Rosebud
48	"	Hutchinson No. 1	drift	Hutchinson Fuel Co.	Fairmont
49	"	Hutchinson No. 2	drift	Hutchinson Fuel Co.	Fairmont
50	"	Phoenix	slope	Douglass-Rauch Coal & Coke Co.	Clarksburg
51	"	O'Gara	slope	O'Gara Coal Mining Co.	Clarksburg
52	"	Lukens	drift	Lukens Coal Co.	Mount Clare
53	"	Chieftain No. 1	drift	Chieftain Coal Co.	Wilsonburg
54	"	Chieftain No. 2	drift	Chieftain Coal Co.	Wilsonburg
55	"	Pitcairn	drift	Pitcairn Coal Co. of W. Va.	Clarksburg
56	"	Harold	drift	Harold Coal & Coke Co.	Clarksburg

*Idle all year.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kinds of Ven-tilation.	Total inside employees.	No.
		Pittsburg.	4-6			1
A. Gilchrist	Wm. Gilchrist	Pitts. No. 8	4-10	furnace		2
O. L. Marquet	Wilson Holmes	Pitts. No. 8	5-0	furnace	45	3
		Pitts. No. 8	4-8			4
Elmer Hough	J. E. Patrick	Pitts. No. 8	5-6	furnace	62	5
M. L. Metheny	Wm. Richards	Pitts. No. 8	4-10	furnace	137	6
James Hawley		Pitts. No. 8	6-6			7
P. J. Harrigan	Archie Lafferty	Up. Free	3-10	fan	97	8
M. M. Cullen	J. H. Cullen	No. 6	4-0	furnace	7	9
O. F. Marquet	Wm. Lidyard	No. 7 a	3-6			10
O. F. Marquet	Wm. Lidyard	No. 7 a	3-6	fan	76	11
O. F. Marquet	Wm. Lidyard	No. 7 a	3-6			12
		No. 6	4-0			13
J. H. Nuzam	Thos. Pollock	Pittsburg	7-0	fan	175	14
H. H. Watson	W. B. Sims	Pittsburg	7-0	fan	62	15
G. W. Eliason	G. W. Eliason	Pittsburg	7-0	air shaft	27	16
L. W. Smith	C. F. Gandy	Pittsburg	7-0	fan	64	17
Lowell Childs	L. C. Keener	Pittsburg	7-0	fan	66	18
J. R. Elsess	S. L. Schrader	Pittsburg	7-0	fan	48	19
J. R. Elsess	S. L. Schrader	Pittsburg	5-0	fan	48	20
Geo. W. Fleming	B. E. Satterfield	Pittsburg	7-0	fan	138	21
Geo. W. Fleming	Wm. Wallace	Pittsburg	7-0	fan	76	22
Thos. Jarrett, Jr.	H. S. Colborn	Pittsburg	7-0	fan	81	23
Thos. Jarrett, Jr.	D. H. Satterfield	Pittsburg	7-0	fan	71	24
C. F. Ice	Bert Russell	Pittsburg	7-0	fan	125	25
C. F. Ice		Pittsburg	7-0	fan		26
P. B. Robinson	C. D. Powell	Pittsburg	7-0	fan	79	27
H. H. Watson	P. J. McAndrew	Pittsburg	7-0	fan	40	28
H. H. Watson		Pittsburg	7-0	fan		29
H. H. Watson	W. B. Sims	Pittsburg	7-0	fan	50	30
L. W. Smith	Chas. Brooks	Pittsburg	7-0	fan	26	31
H. T. Hardisty	H. T. Hardisty	Pittsburg	7-0	fan	32	32
J. H. Nuzum	R. A. Brown	Pittsburg	7-0	fan	96	33
K. D. Bailey	U. B. Blakesmith	Pittsburg	7-0	fan	214	34
H. S. Toothman	H. S. Toothman	Pittsburg	7-0	fan	66	35
E. H. Williams	Floyd Gandy	Pittsburg	7-0	fan		36
E. H. Williams	Floyd Gandy	Pittsburg	7-0	fan		37
E. H. Williams	R. H. Wilson	Pittsburg	7-0	fan	30	38
C. F. Ice	N. H. Hacker	Pittsburg	7-0	fan	81	39
C. F. Ice	John Walters	Pittsburg	7-0	fan	35	40
A. Lisle White	T. J. Westmoreland	Pittsburg	8-0	fan	83	41
W. H. H. Miller	C. C. Lovett	Pittsburg	9-0	fan	71	42
L. L. Crawford	C. D. M. Kramer	Pittsburg	8-0	fan	40	43
H. B. Clark	A. G. Colburn	Pittsburg	8-0	fan	152	44
H. B. Clark	Wm. Ashcraft	Pittsburg	8-0	furnace	30	45
James F. Cook	John Lowther	Pittsburg	8-0	natural	34	46
Samuel Cromer	Samuel Cromer	Pittsburg	7-6	fire basket	26	47
W. G. H. Crawford	W. B. Malone	Pittsburg	6-0	fan	25	48
W. G. H. Crawford	W. B. Malone	Pittsburg	7-0	fan	27	49
B. H. Monroe	B. H. Monroe	Pittsburg	7-6	fan	25	50
M. Mannix	M. Mannix	Pittsburg	6-0	fan	43	51
John Temple	Jos. Metheny	Pittsburg	7-0	fan	37	52
C. J. Warnock	Otis Jacoby	Pittsburg	7-0	fan	46	53
C. J. Warnock	Otis Jacoby	Pittsburg	7-0	furnace		54
James A. Jenkins	Grant White	Pittsburg	8-0	fan	57	55
Wm. Shrader	W. M. McCloud	Pittsburg	9-0	furnace	27	56

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
57	Harrison	Girard No. 2	drift	Short Line Coal Co.	Dola.
58	"	Dola	drift	National Coal Co.	Dola.
59	Marion	Murray	drift	Fairmont Coal Co.	Fairmont.
60	"	Montana	drift	Fairmont Coal Co.	Fairmont.
61	"	West Fairmont	shaft	Fairmont Coal Co.	Fairmont.
62	"	New England	drift	Fairmont Coal Co.	Fairmont.
63	"	Gaston	slope	Fairmont Coal Co.	Fairmont.
64	"	Monongah No. 3	drift	Fairmont Coal Co.	Fairmont.
65	"	Monongah Nos. 2 & 5	2 dfts	Fairmont Coal Co.	Fairmont.
66	"	Monongah No. 6	slope	Fairmont Coal Co.	Fairmont.
67	"	Monongah No. 8	drift	Fairmont Coal Co.	Fairmont.
68	"	Pennois	drift	Fairmont Coal Co.	Fairmont.
69	"	Marion	drift	Fairmont Coal Co.	Fairmont.
70	"	Anderson	drift	Fairmont Coal Co.	Fairmont.
71	"	Highland	drift	Fairmont Coal Co.	Fairmont.
72	"	Middleton	drift	Fairmont Coal Co.	Fairmont.
73	"	Chiefton	drift	Fairmont Coal Co.	Fairmont.
74	"	Hutchinson	slope	Fairmont Coal Co.	Fairmont.
75	"	King	drift	The Virginia & Pittsburg Coal & Coke Co.	Fairmont.
76	"	Chatham No. 1	shaft	George's Creek Coal & Iron Co.	Farmington
77	"	Chatham No. 2	shaft	George's Creek Coal & Iron Co.	Farmington
78	"	Federal No. 1	shaft	Federal Coal & Coke Co.	Fairmont.
79	"	Stafford	shaft	New Central Coal Co.	Fairmont.
80	"	Kilarm	drift	Kilarm Coal & Coke Co.	Everson.
81	"	Powell	drift	Powell Coal & Coke Co.	Powell
82	"	Big Falls	drift	Big Falls Coal Co.	Fairmont.
83	Monongalia	Opekiska	drift	Opekiska Coal & Coke Co.	Opekiska.
84	"	Beechwood	drift	Fairmont Coal Co.	Fairmont.
85	"	No. 1	drift	West Virginia Coal Co.	Morgantown.
86	"	Deckers Creek	drift	Deckers Creek Coal & Coke Co.	Richard.
87	"	Round Bottom	drift	Niagara Coal & Coke Co.	Morgantown.
88	Marshall	Hitchman	slope	Hitchman Coal & Coke Co.	Wheeling.
89	"	Boggs Run	drift	Boggs Run Mining & Manufacturing Co.	Wheeling.
90	"	Benwood	drift	Wheeling Steel & Iron Co.	Wheeling.
91	"	Glendale	shaft	Glendale Coal Co.	Glendale.
92	"	Mound	shaft	Mound Coal Co.	Wheeling.
93	"	McConnell	shaft	The Glen Easton Coal & Coke Co.	Moundsville
94	Ohio	Central	drift	Jochum & Co.	Wheeling.
95	"	Whitaker	drift	W. H. Kasley	Wheeling.
96	"	Richland	drift	Richland Coal Co.	Wheeling.
97	"	Elm Grove	shaft	The Elm Grove Coal Co.	Elm Grove.
98	"	Manchester	drift	Reymann Brewing Co.	Wheeling.
99	"	McKinley	drift	Wheeling Steam Coal Co.	Wheeling.

SECOND DISTRICT, EARL A. HENRY, INSPECTOR.

100	Clay	Elk Manor	drift	Dorfee Coal Mining Co.	Dorfee.
101	"	Ohio	drift	Ohio Coal Mining Co.	Queen Shoals.
102	"	Carter	drift	Carter Coal Co.	Scotford
103	"	Scott	drift	Gauley Consolidated Coal Co.	Scotford.
104	"	*Malcolm	drift	Malcolm Coal Co.	Scotford.
105	"	*Willey	drift	Willey Coal Co.	Scotford.
106	Kanawha	Jones	drift	Falling Rock Cannel Coal Co.	Weir
107	"	Graham	drift	Keystone Coal Co.	Graham Mines.
108	"	Queen Shoals	drift	The Elk Coal Co.	Charleston.
109	"	Turner	drift	The Elk Coal Co.	Charleston.
110	"	Morris Creek No. 2	drift	The Elk Coal Co.	Charleston.
111	"	Ramage	drift	Clendenin Coal Co.	Clendenin.
112	"	*Clendenin	drift	Clendenin Coal Co.	Clendenin.

*Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside employees.	No.
I. Keith.....	B. H. Stairs.....	Pittsburg.	9-0	furnace...	37	57
Jacob Welsh.....	Jacob Welsh.....	Pittsburg.	6-6	furnace...	15	58
J. H. Bainbridge.....	W. N. Malone.....	Pittsburg.	7-0	fan & nat.	90	59
C. E. Gaskill.....	Wm. Gaskill.....	Pittsburg.	7-0	fan.....	188	60
J. J. Brennen.....	S. R. Fetty.....	Pittsburg.	7-0	2 fans.....	300	61
Geo. T. Watson.....	C. H. Tarleton.....	Pittsburg.	7-0	fan.....	300	62
Geo. T. Watson.....	John C. Thompson.....	Pittsburg.	7-0	fan.....	190	63
A. J. Ruckman.....	James Rogers.....	Pittsburg.	7-0	2 fans.....	198	64
A. J. Ruckman.....	Tom Killeen.....	Pittsburg.	7-0	2 fans.....	237	65
A. J. Ruckman.....	Tom Donlin.....	Pittsburg.	7-0	fan.....	188	66
A. J. Ruckman.....	J. M. McGraw.....	Pittsburg.	7-0	fan.....	18	67
Rush Miller.....	John Riggins.....	Pittsburg.	7-0	fan.....	117	68
Rush Miller.....	Henry Winning.....	Pittsburg.	7-0	furnace.....	19	69
Rush Miller.....	Geo. Coburn.....	Pittsburg.	7-0	fan.....	128	70
Rush Miller.....	John Prunty.....	Pittsburg.	7-0	fan.....	168	71
Rush Miller.....	J. E. Dent.....	Pittsburg.	7-0	fan.....	92	72
Rush Miller.....	Claud Addison.....	Pittsburg.	7-0	fan.....	88	73
Geo. W. Fleming.....	Thos. Burlock.....	Pittsburg.	7-0	fan.....	55	74
R. M. Hite.....	Geo. Fortney.....	Pittsburg.	9-0	fan.....	139	75
R. L. Somerville, G. M.....	Evans L. Griffith.....	Pittsburg.	9-0	fan.....	290	76
R. L. Somerville, G. M.....	John McNeil.....	Sewickley.	7-0	fan.....	30	77
D. B. Stauff.....	John Humpage.....	Pittsburg.	9-0	fan.....	90	78
Duncan Sinclair.....	Peter McIlheny.....	Pittsburg.	8-6	fan.....	70	79
C. E. Zeek.....	G. B. Skinner.....	Pittsburg.	6-0	fan.....	60	80
J. A. Trumbath.....	F. E. Parsons.....	Lo. Free.....	4-4	fan.....	36	81
John W. Miner.....	John W. Miner.....	Sewickley.	6-5	furnace.....	22	82
W. S. Wood.....	F. H. Love.....	Pittsburg.	9-0	natural.....	11	83
W. W. Ferguson.....	Lee Cottrill.....	Pittsburg.	7-0	natural.....	70	84
J. B. Hanford.....	O. T. Barnard.....	Up Free.....	4-2	fan.....	66	85
J. J. Collins.....	F. E. Dawson.....	Up Free.....	4-0	furnace.....	43	86
R. E. L. Allen.....	U. R. Smith.....	Pittsburg.	9-0	natural.....	5	87
W. H. Koch.....	E. C. Pickett.....	Pitts. No. 8	5-6	fan.....	195	88
Philip Kunz.....	Eugene Miller.....	Pitts. No. 8	5-6	fan.....	53	89
Chalkley Dawson.....	Wm. Turnbull.....	Pitts. No. 8	5-6	fan.....	56	90
John E. Wallace.....	J. W. Smith.....	Pitts. No. 8	5-8	fan.....	45	91
J. W. Berry.....	Jacob Leonard.....	Pitts. No. 8	5-8	fan.....	45	92
Geo. W. Dawson.....	Geo. W. Dawson.....	Pitts. No. 8	5-8	fan.....	7	93
John Jochum.....	John Jochum.....	Pitts. No. 8	4-8	furnace.....	3	94
W. H. Kasley.....	Wm. Magruder.....	Pitts. No. 8	5-0	fan.....	16	95
W. N. Phillips.....	John Aitkens.....	Pitts. No. 8	5-2	furnace.....	73	96
J. B. Chambers.....	Jerry Westlake.....	Pitts. No. 8	6-0	fan.....	69	97
C. C. Schmidt.....	John Donahue.....	Pitts. No. 8	4-6	fan.....	11	98
Paul Leonard.....	Al Rose.....	Pitts. No. 8	5-0	furnace.....	11	99
Geo. W. La Rue.....	Samuel T. Hoge.....	Winifrede	4-4	fan.....	52	100
J. F. Kilbride.....	Otis Welsh.....	Coalburg.	3-0	furnace.....	6	101
Wm. Tamplin.....	W. R. Cottle.....	Coalburg.	4-0	furnace.....	31	102
S. L. Walker.....	J. L. Corbett.....	Coalburg.	4-6	furnace.....	24	103
.....	.....	Coalburg.	4-8	.....	.....	104
.....	.....	Coalburg.	4-8	.....	.....	105
H. G. Young.....	R. B. Young.....	Cannel.....	2-4	fan.....	32	106
Peter W. Bentley.....	E. P. Bentley.....	Coalburg.	3-6	furnace.....	35	107
Henry Davis.....	G. P. Powers.....	No. 5.....	4-0	furnace.....	35	108
Henry Davis.....	W. B. Davis.....	.....	3-6	.....	.....	109
Henry Davis.....	W. B. Davis.....	.....	3-6	fan.....	54	110
J. B. Ramage.....	D. S. Hammick.....	No. 5.....	3-0	furnace.....	11	111
G. W. Gaghan.....	George Thompson.....	.....	.....	.....	.....	112

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
113	Kanawha	Lucas-Ray	drift	Lucas-Ray Coal Co.	Heatherman
114	"	*Jefferson No. 1	drift	Jefferson Coal Co.	Heatherman
115	"	Pen Mar No. 1	drift	Pen Mar Mining Co.	Graham Mines.
116	"	Sycamore	drift	J. G. Vaughan	Graham Mines.
117	"	Mill Creek	drift	Mill Creek Cannel Coal Co.	Charleston
118	"	*Black Hawk	drift	Black Hawk Coal Co.	Black Hawk
119	"	No. 2	drift	Campbells Creek Coal Co.	Dana
120	"	No. 1	drift	Campbells Creek Coal Co.	Dana
121	"	*Burning Springs	drift	Burning Springs Coal Co.	Heskett
122	"	Black Diamond	drift	New Diamond Coal Co.	Diamond
123	"	Quincy No. 1	drift	Quincy Coal Co.	Quincy
124	"	Quincy No. 2	drift	Quincy Coal Co.	Quincy
125	"	*Witcher	drift	Witcher Coal Co.	Witcher
126	"	K. & H. No. 101	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
127	"	K. & H. No. 103	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
128	"	K. & H. No. 104	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
129	"	K. & H. No. 105	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
130	"	K. & H. No. 106	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
131	"	K. & H. No. 108	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
132	"	K. & H. No. 109	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
133	"	K. & H. No. 110	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
134	"	*K. & H. No. 119	drift	Kanawha & Hocking Coal & Coke Co.	Cedar Grove
135	"	No. 1	drift	Kellys Creek Colliery Co.	Ward
136	"	Hughston No. 2	drift	Hughes Creek Coal Co.	Hughston
137	"	Cannelton No. 2	drift	Cannelton Coal Co.	Cannelton
138	"	*Shrewsbury	drift	The Willis Coal & Coke Co.	Marmet
139	"	Lens Creek (abandoned)	drift	The Marmet Coal Co.	Marmet
140	"	Butler	drift	The Marmet Coal Co.	Marmet
141	"	Monarch	2 dfts	The Marmet Coal Co.	Marmet
142	"	Winifrede Gas	drift	Winifrede Coal Co.	Winifrede
143	"	South	drift	Winifrede Coal Co.	Winifrede
144	"	North Pick	drift	Winifrede Coal Co.	Winifrede
145	"	North Machine	drift	Winifrede Coal Co.	Winifrede
146	"	West	drift	Winifrede Coal Co.	Winifrede
147	"	*McConihay	drift	West Virginia Peerless Coal Co.	Lewiston
148	"	Ronda	drift	Coalburg Colliery Co.	Ronda
149	"	*Peerless	drift	Peerless Gas Coal Co.	Ronda
150	"	Acme	drift	Stevens Coal Co.	Acme
151	"	Keystone	drift	Stevens Coal Co.	Acme
152	"	Empire	drift	Stevens Coal Co.	Acme
153	"	Shamrock	drift	Shamrock Coal Co.	Kayford
154	"	No. 1	drift	Dry Branch Coal Co.	Dry Branch
155	"	No. 2	drift	Dry Branch Coal Co.	Dry Branch
156	"	No. 3	drift	Dry Branch Coal Co.	Dry Branch
157	"	Belleclare	drift	Belleclare Coal Co.	Decota
158	"	Ruby	drift	Belleclare Coal Co.	Decota
159	"	*Decota	drift	Belleclare Coal Co.	Decota
160	"	Oakley	drift	Cardiff Coal Co.	Charleston
161	"	Climax	drift	Cardiff Coal Co.	Charleston
162	"	Horton No. 1	drift	Cardiff Coal Co.	Charleston
163	"	Horton No. 2	drift	Cardiff Coal Co.	Charleston
164	"	*Persinger	drift	Persinger Coal Co.	West Fairfield
165	"	Holly	drift	Holly Coal Co.	Leewood
166	"	Quarrier	drift	Quarrier Coal Co.	Wake Forest
167	"	Red Warrior	drift	Red Warrior Coal Co.	Warrior
168	"	Cherokee	drift	Cherokee Coal Co.	Leewood

*Idle all year. *Just Being opened.

*NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thick- Ft. In.	Kind of Ven- tilation.	Total Inside employees.	No.
Samuel Simpkins.....	Samuel Simpkins.....	No. 5.....	3-6..	furnace...	8	113
James Heatherman.....	James Heatherman.....	N. Coalb'rg	3-0..	furnace...	18	114
J. C. Galbreath.....	Charles Johnson.....	N. Coalb'rg	5-0..	natural...	12	115
J. G. Vaughan.....	J. G. Vaughan.....	N. Coalb'rg	4-3..	natural...	31	116
W. E. Brooks, Mgr.....	W. H. Mease.....	Cannel.....	4-0..	fan.....	59	117
E. H. Robertson.....	J. B. Lawrence.....	Coalburg.....	5-4..	fan.....	118	118
W. V. Rensford.....	W. B. Calderwood.....	Campb. Cr.	5-6..	fan & fur.	171	119
W. V. Rensford.....	W. B. Calderwood.....	No. 5.....	4-8..	fan.....	121	120
W. B. Stevens.....	James Hemmings.....	Cedar Gro.	3-1..	fan.....	45	121
Arthur Robinson.....	James Hemmings.....	Winifrede.	4-0..	natural...	40	122
Wm. Dickinson.....	W. J. Krantz.....	Lewiston.	3-3..	furnace...	16	123
Wm. Dickinson.....	Charles Moss.....	No. 5.....	6-0..	natural...	125	124
Wm. F. Mandt.....	Wm. Martin.....	Peerless.....	2-9..	fan.....	101	125
Wm. F. Mandt.....	Joe Miller.....	No. 5.....	6-6..	fan.....	106	126
Wm. F. Mandt.....	Joe Miller.....	Cedar Gro.	2-10..	fan.....	154	127
Wm. F. Mandt.....	Joe Miller.....	Cedar Gro.	2-10..	fan.....	106	128
Wm. F. Mandt.....	Thos. Boyd.....	Coalburg.	5-10..	fan.....	25	129
Wm. F. Mandt.....	J. N. Burgraf.....	No. 5.....	6-0..	fan.....	63	130
Wm. F. Mandt.....	H. J. Wills.....	Coalburg.	5-5..	fan.....	81	131
Wm. F. Mandt.....	Wm. Welch.....	No. 5.....	6-0..	fan.....	87	132
Wm. F. Mandt.....	R. L. Miller.....	Cedar Gro.	2-11..	fan.....	109	133
Wm. F. Mandt.....	Wm. Shannon.....	No. 5.....	5-8..	natural...	85	134
H. T. Smarr.....	Wm. Shannon.....	Coalburg.	4-6..	fan.....	72	135
John W. Moore.....	John Nugent.....	Coalburg.	4-3..	furnace...	123	136
Langdon Lea.....	Charles McCann.....	No. 2 Gas.	6-11..	fan.....	138	137
J. H. Shrewsbury.....	Lo Kiltan.....	Lo Kiltan.	4-2..	fan.....	109	138
Alfred Reddington.....	Joseph Powers.....	Winifrede.	3-6..	furnace...	166	139
Alfred Reddington.....	W. H. Stuart.....	Winifrede.	4-2..	fan.....	129	140
Alfred Reddington.....	R. A. Sneed.....	Cedar Gro.	3-0..	2 fans.....	54	141
R. B. Cassady.....	Geo. Petry.....	Peerless.....	2-10..	furnace...	158	142
R. B. Cassady.....	John S. Williams.....	Winifrede.	5-0..	fan.....	152	143
R. B. Cassady.....	John W. Gay.....	Winifrede.	5-0..	fan.....	67	144
R. B. Cassady.....	James W. Elliot.....	Winifrede.	5-0..	fan.....	147	145
R. B. Cassady.....	James Kennedy.....	Winifrede.	5-0..	fan.....	87	146
R. C. Lewis.....	Peerless.....	Peerless.....	2-8..	natural...	24	147
W. H. Vanden.....	E. W. Findley.....	Coalburg.	7-6..	natural...	72	148
E. H. Shonk.....	Henry Viores.....	Peerless.....	3-6..	fan.....	151	149
E. H. Shonk.....	John Holmes.....	Coalburg.	5-6..	fan.....	34	150
E. H. Shonk.....	John Branham.....	No. 2 Gas.	5-6..	fan.....	37	151
E. H. Shonk.....	W. H. Morris.....	No. 2 Gas.	5-6..	fan.....	152	152
T. A. Kay.....	John Kay.....	No. 2 Gas.	6-0..	fan.....	26	153
R. C. Lewis.....	R. M. Odell.....	Peerless.....	3-8..	natural...	37	154
R. C. Lewis.....	R. M. Odell.....	Lewiston.	4-6..	natural...	107	155
R. C. Lewis.....	R. M. Odell.....	Coalburg.	5-6..	natural...	37	156
Fred C. Prichard.....	J. H. Powers.....	No. 2 Gas.	5-8..	furnace...	18	157
Fred C. Prichard.....	Joseph Filkins.....	Coalburg.	5-9..	furnace...	36	158
Fred C. Prichard.....	Joseph Filkins.....	Eagle.....	3-6..	furnace...	26	159
F. R. Clark.....	J. C. Layne.....	Lewiston.	4-3..	fan.....	40	160
W. D. Knight.....	W. D. Knight.....	No. 2 Gas.	6-0..	furnace...	161	161
F. R. Clark.....	Gus Means.....	Coalburg.	5-2..	furnace...	162	162
F. R. Clark.....	Geo. Tackett.....	Coalburg.	5-2..	furnace...	163	163
J. C. Gilmour.....	W. T. Gosnay.....	No. 2 Gas.	5-0..	furnace...	40	164
A. P. Shearer.....	James Mathews.....	No. 2 Gas.	5-4..	furnace...	45	165
C. H. Mead.....	C. L. Petty.....	No. 2 Gas.	5-8..	2 furnaces	76	166
J. C. Gilmour.....	Henry Simmons.....	No. 2 Gas.	5-0..	fan.....	60	167
					168	168

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
169	Kanawha	Wake Forest.....	drift	Wake Forest Mining Co....	Wake Forest...
170	"	+Leewood No. 1.....	drift	Holly & Stephenson Coal & Coke Co.....	Leewood.....
171	"	+Leewood No. 2.....	drift	Holly & Stephenson Coal & Coke Co.....	Leewood.....
172	"	Davis.....	drift	M. T. Davis Coal Co.....	Ohley.....
173	"	Calendonian.....	3 dfts	Calendonian Coal & Coke Co.....	Warrior.....
174	"	Thistle.....	drift	Thistle Coal Co.....	Kayford.....
175	"	La Mont No. 1.....	drift	La Mont Mining Co.....	Beth.....
176	"	La Mont No. 2.....	drift	La Mont Mining Co.....	Beth.....
177	"	La Mont No. 3.....	drift	La Mont Mining Co.....	Beth.....
178	"	South.....	8 dfts	Carbon Coal Co.....	Carbon.....
179	"	North.....	drift	Carbon Coal Co.....	Carbon.....
180	"	No. 1.....	drift	Republic Coal Co.....	Carbon.....
181	"	No. 2.....	drift	Republic Coal Co.....	Carbon.....
182	"	No. 1.....	drift	West Virginia Colliery Co.....	Wevaco.....
183	"	No. 2.....	drift	West Virginia Colliery Co.....	Wevaco.....
184	"	Raccoon Fork.....	drift	Raccoon Fork Coal Co.....	Kayford.....
185	"	United Gas.....	drift	United Colliery Co.....	Wevaco.....
186	"	Kayford No. 1.....	drift	Cabin Creek Mining Co.....	Kayford.....
187	"	Kayford No. 2.....	slope	Cabin Creek Mining Co.....	Kayford.....
188	"	Klondike.....	drift	Robinson Coal Co.....	Coalburg.....
189	"	No. 5.....	drift	Robinson Coal Co.....	Coalburg.....
190	"	+Pine Grove.....	drift	Pine Grove Coal Co.....	Coalburg.....
191	"	East Bank.....	drift	Shenandoah Coal & Coke Co.....	East Bank.....
192	"	Coalburg.....	drift	Belmont Coal Co.....	Crown Hill.....
193	"	Lewiston.....	drift	Belmont Coal Co.....	Crown Hill.....
194	"	Belmont No. 3.....	drift	Belmont Coal Co.....	Crown Hill.....
195	"	Coalburg.....	drift	Equitable Coal Co.....	Crown Hill.....
196	"	Kanawha.....	drift	Equitable Coal Co.....	Crown Hill.....
197	"	Lewiston (Black Cat).....	drift	The Pawnee Coal Co.....	Crown Hill.....
198	"	Coalburg (Black Cat).....	drift	The Pawnee Coal Co.....	Crown Hill.....
199	"	Scranton.....	drift	Scranton Splint Coal Co.....	Mucklow.....
200	"	Paint Creek.....	drift	Paint Creek Coal Co.....	Mucklow.....
201	"	Standard.....	drift	Standard Splint & Gas C. C.....	Standard.....
202	"	Grose.....	drift	Grose Colliery Co.....	Tombsburg.....
203	"	Imperial No. 1.....	drift	Imperial Colliery Co.....	Burnwell.....
204	"	Imperial No. 2.....	drift	Imperial Colliery Co.....	Burnwell.....
205	"	Greenbrier No. 2.....	drift	Greenbrier Coal Co.....	Burnwell.....
206	"	Masters.....	drift	Greenbrier Coal Co.....	Burnwell.....
207	"	Coalburg.....	3 dfts	Wacomah Coal Co.....	Mucklow.....
208	"	Detroit No. 1.....	drift	Detroit & Kanawha Coal Co.....	Ashcamp.....
209	"	+Detroit No. 2.....	drift	Detroit & Kanawha Coal Co.....	Ashcamp.....
210	"	Morton No. 1.....	drift	Morton Coal Co.....	Ashcamp.....
211	"	Morton No. 2.....	drift	Morton Coal Co.....	Ashcamp.....
212	"	Nuckolls.....	4 dfts	Nuckolls Coal & Coke Co.....	Tombsburg.....
213	"	Coalburg.....	drift	Banner Coal Co.....	Mucklow.....
214	"	Crown Hill.....	drift	Banner Coal Co.....	Mucklow.....
215	"	Chesapeake No. 1.....	drift	Chesapeake Mining Co.....	Handley.....
216	"	Chesapeake No. 2.....	drift	Chesapeake Mining Co.....	Handley.....
217	"	Kanawha.....	drift	Montgomery Coal Co.....	Montgomery.....
218	"	Black Band No. 1.....	drift	+Black Band Coal & Coke Co.....	Spring Hill.....
219	"	Black Band No. 2.....	drift	+Black Band Coal & Coke Co.....	Spring Hill.....
220	"	Black Band No. 3.....	drift	+Black Band Coal & Coke Co.....	Spring Hill.....
221	"	+Carkins.....	drift	+Black Band Coal & Coke Co.....	Spring Hill.....
222	"	Black Band.....	drift	Coal River Lumber & C. Co.....	Olcott.....
223	"	Reynolds.....	drift	Reynolds Black Band C. Co.....	Olcott.....
224	"	*Knickerbocker.....	drift	Knickerbocker Coal Co.....	Olcott.....
225	"	American.....	drift	American Coal & Coke Co.....	Dungriff.....
226	"	Morris Creek.....	drift	Morris Creek Coal Co.....	Montgomery.....
227	Lincoln	Rochester.....	drift	Rochester Coal Co.....	Hadley.....
228	"	Guyandotte.....	drift	Guyandotte Coal Co.....	Hadley.....
229	Mason	Hope.....	drift	Hope Salt & Coal Co.....	Mason.....
230	"	McDaniel.....	drift	Mason City Mining Co.....	Mason.....
231	"	Jackson.....	drift	Liverpool Salt & Coal Co.....	Hartford.....
232	"	Hartford.....	slope	Hartford City Salt Co.....	Hartford.....

+ Not in operation during the year.
being opened.

* Formerly Kanawha & Coal River C. Co.

* Just

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. C. Grymes	Jessee Gardner.....	No. 2 Gas.	5-0	fan	50	169
F. H. McClung.....	Wm. Shamblin.....	No. 1 Gas.	3-10			170
F. H. McClung.....	Wm. Shamblin.....	No. 1 Gas.	3-10			171
M. W. Murphy.....	Robt. Thompson.....	Lewiston.	5-0	2 furnaces.	36	172
W. R. Kay.....	J. C. Eastham.....	No. 2 Gas.	4-9	2 furnaces.	31	173
T. A. Kay.....	John W. Eastham.....	No. 2 Gas.	5-0	fan	56	174
Paul L. James.....	Logan Linville.....	No. 2 Gas.	3-10	furnace	21	175
Paul L. James.....	Logan Linville.....	No. 2 Gas.	3-10	furnace	21	176
Paul L. James.....	Wm. Hardy.....	Coalburg.	6-6	2 furnaces.	24	177
Frank Homan.....	Lee Jenkins.....	No. 2 Gas.	5-6	5 fans	73	178
K. D. Quarrier.....	Tom Baldwin.....	No. 2 Gas.	5-10	fan	38	179
Frank Homan.....	Owen Meadows.....	No. 2 Gas.	6-0	fan	49	180
Frank Homan.....	Wm. Nicholson.....	No. 2 Gas.	6-0	fan	27	181
John Holmes.....	Geo. Buckley.....	No. 2 Gas.	6-0	fan	70	182
John Holmes.....	Dan Workman.....	No. 2 Gas.	6-0	natural	51	183
F. A. Kay.....	John Rhodes.....	No. 2 Gas.	5-6	fan	97	184
Fred N. Moore.....	D. S. Holmes.....	No. 2 Gas.	5-4	fan	49	185
T. A. Kay.....	Geo. W. Eastham.....	No. 2 Gas.	6-0	fan	145	186
T. A. Kay.....	Geo. W. Eastham.....	No. 2 Gas.	6-0	fan		187
A. M. Woodredge.....	James Murray.....	Cedar Gro.	2-9	furnace	21	188
A. M. Woodredge.....	James Murray.....	Coalburg.	5-8	furnace	56	189
John Peacock.....	John Peacock.....	Peerless.	3-6			190
Henry Stephenson.....	Henry Stephenson.....	Cedar Gro.	2-8	fan	28	191
J. C. Morrison.....	Andrew Kirby.....	Coalburg.	6-6	fan		192
J. C. Morrison.....	Andrew Kirby.....	Lewiston.	4-0	fan	105	193
J. C. Morrison.....	John Filbin.....	Coalburg.	6-0	fan		194
J. M. Roan, Jr.....	E. L. Brewer.....	Coalburg.	5-0	fan	112	195
J. M. Roan, Jr.....	E. L. Brewer.....	Kanawha.	3-9	fan		196
W. E. Dial.....	D. H. Hudnall.....	Lewiston.	4-0	fan		197
W. E. Dial.....	D. H. Hudnall.....	Coalburg.	5-6	fan	68	198
W. W. Mucklow.....	John J. Cox.....	Coalburg.	6-0	fan	75	199
W. W. Mucklow.....	T. M. Burke.....	Coalburg.	7-0	fan	72	200
J. A. Straughan.....	Ed. Forbes.....	Coalburg.	7-6	4 furnaces.	68	201
T. C. McVey.....	J. C. Grissinger.....	Eagle.	4-0	furnace	52	202
Lee Long.....	Thos. Secrist.....	Eagle.	5-0	fan	50	203
Lee Long.....	W. A. Otey.....	Eagle.	4-8	fan	39	204
A. C. Masters.....	W. H. Vaughan.....	No. 2 Gas.	5-0	furnace	44	205
A. C. Masters.....	P. F. Berry.....	Winifrede.	6-0	furnace	33	206
J. A. Wood.....	Ed. Hope.....	Coalburg.	8-0	3 furnaces.	60	207
John E. Miner.....	R. F. Townsend.....	Eagle.	3-11	fan	30	208
John E. Miner.....	Floyd Dillon.....	No. 2 Gas.	4-6	furnace		209
Quin Morton.....	Clayton Crickmer.....	Eagle.	4-6	furnace	57	210
Quin Morton.....	Clayton Crickmer.....	No. 2 Gas.	4-0	natural	7	211
A. D. Harrah.....	H. J. Price.....	No. 2 Gas.	4-6	4 furnaces.	50	212
W. W. Mucklow.....	D. L. Waters.....	Coalburg.	6-6	furnace	45	213
W. W. Mucklow.....	D. L. Waters.....	Lewiston.	6-6	furnace		214
J. H. Carter.....	Alex Thompson.....	Kanawha.	5-0	fan	102	215
J. H. Carter.....	Geo. Walker.....	No. 2 Gas.	4-7	fan	47	216
S. H. Montgomery.....	S. P. Johnson.....	Kanawha.	4-6	natural	78	217
F. H. Palmer.....	Gowan Stokes.....	Blk. Band.	3-0	fan	94	218
F. H. Palmer.....	G. E. Sanford.....	Blk. Band.	3-0	fan	30	219
F. H. Palmer.....	G. E. Sanford.....	Blk. Band.	3-0	fan	43	220
F. H. Palmer.....		Peerless.	2-8			221
W. T. Andrews.....	E. C. Griffith.....	Blk. Band.	3-6	furnace	24	222
H. F. Hanks.....	J. R. Mucklow.....	Blk. Band.	3-10	furnace	25	223
H. F. Hanks.....	Robert Mucklow.....	Blk. Band.	3-4	furnace		224
Wm. Bowen.....	Wm. Bowen.....	Blk. Band.	3-4	furnace	23	225
John T. Todd.....	J. D. Thompson.....	Kanawha.	4-9	fan	51	226
P. H. Grelle.....	Charles Estep.....	Up Free.	7-2	furnace	17	227
J. W. Lockwood.....	E. A. Deering.....	Kanawha.	6-0	furnace	13	228
D. C. Davis.....	Harry Williams.....	Pittsburg.	4-6	natural	24	229
G. H. Gress.....	W. L. Harris.....	Pittsburg.	4-6	fan	35	230
H. F. Smith.....	Samuel Edwards.....	Pittsburg.	4-6	fan	30	231
Wm. H. Newton.....	Richard Jenkins.....	Pittsburg.	4-8	fan	24	232

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
233	Mason.....	New Castle.....	drift	Consumers Coal & Mining Co	Spilman.....
234	"	Camden.....	drift	Consumers Coal & Mining Co	Spilman.....
235	"	Klondike.....	drift	Hanging Rock Coal Co....	Hartford.....
236	"	Beech Grove.....	drift	Beech Grove Coal Co.....	Mason.....
237	"	Harris.....	drift	Thos. D. Harris.....	Hartford.....
238	Putnam.....	Plymouth.....	drift	Plymouth Coal & Mining Co	Plymouth.....
239	"	Manilla.....	drift	Plymouth Coal & Mining Co	Plymouth.....
240	"	Pocatalico.....	drift	The Otto Marmet C. & M Co	Raymond City..
241	"	Big Otto No. 1.....	drift	The Otto Marmet C & M Co	Raymond City..
242	"	Big Otto No. 2.....	2 dfts	The Otto Marmet C & M Co	Raymond City..
243	"	Black Betsey.....	drift	Black Betsey C. & M. Co....	Black Betsey...
244	"	Oak Forest.....	slope	Oak Forest C. & M. Co....	Oak Forest.....
245	"	Alpha.....	drift	Alpha Coal Mining Co.....	Plymouth.....

THIRD DISTRICT, EDWARD PINKNEY, INSPECTOR.

246	Fayette.....	Hickory Camp No. 1.....	drift	Hickory Camp C. & C. Co.	Mahan.....
247	"	K. & H. No. 111.....	drift	Kanawha & Hocking Coal & Coke Co.....	Longacre.....
248	"	K. & H. No. 112.....	drift	Kanawha & Hocking Coal & Coke Co.....	Longacre.....
249	"	K. & H. No. 114.....	drift	Kanawha & Hocking Coal & Coke Co.....	Longacre.....
250	"	K. & H. No. 115.....	drift	Kanawha & Hocking Coal & Coke Co.....	Longacre.....
251	"	K. & H. No. 117.....	drift	Kanawha & Hocking Coal & Coke Co.....	Longacre.....
252	"	No. 1.....	drift	Columbus Iron & Steel Co.	Martins.....
253	"	Kanawha Gas.....	drift	Kanawha Gas Coal Co.....	Smithers.....
254	"	Oakland.....	drift	W. R. Johnson & Co.....	Smithers.....
255	"	Boomer No. 1.....	drift	Boomer Coal & Coke Co.....	Boomer.....
256	"	Boomer No. 2.....	2 dfts	Boomer Coal & Coke Co.....	Boomer.....
257	"	Boomer No. 3.....	drift	Boomer Coal & Coke Co.....	Boomer.....
258	"	*Kanawha Falls.....	drift	Kanawha Falls Colliery Co.	Kanawha Falls..
259	"	Eureka No. 1.....	drift	Gordon Coal & Coke Co.....	Montgomery...
260	"	Eureka No. 2.....	drift	Gordon Coal & Coke Co.....	Montgomery...
261	"	Eureka No. 5.....	drift	Gordon Coal & Coke Co.....	Montgomery...
262	"	St. Clair No. 1.....	drift	St. Clair Colliery Co.....	Eagle.....
263	"	St. Clair No. 2.....	drift	St. Clair Colliery Co.....	Eagle.....
264	"	Economy.....	slope	Economy Fuel Co.....	Montgomery...
265	"	Eagle No. 1.....	drift	W. R. Johnson.....	Crescent.....
266	"	Gas No. 2.....	drift	W. R. Johnson.....	Crescent.....
267	"	No. 5 Splint.....	drift	W. R. Johnson.....	Crescent.....
268	"	Mecca Gas.....	drift	Carver Brothers Co.....	Montgomery...
269	"	Mecca Block.....	drift	Carver Brothers Co.....	Montgomery...
270	"	Edgewater No. 2.....	drift	Carver Brothers Co.....	Eagle.....
271	"	Edgewater No. 3.....	drift	Carver Brothers Co.....	Eagle.....
272	"	Eagle.....	drift	Carver Brothers Co.....	Eagle.....
273	"	California.....	drift	Carver Brothers Co.....	Eagle.....
274	"	Edgewater No. 1.....	drift	Carver Brothers Co.....	Eagle.....
275	"	Edgewater No. 5.....	drift	Carver Brothers Co.....	Eagle.....
276	"	*Diamond.....	drift	Carver Brothers Co.....	Eagle.....
277	"	Vulcan.....	drift	The Mt. Carbon Co. Ltd...	Powellton.....
278	"	South.....	drift	The Mt. Carbon Co. Ltd...	Powellton.....
279	"	Excelsior.....	drift	The Mt. Carbon Co. Ltd...	Powellton.....
280	"	Brewster.....	drift	The Gt. Kanawha Colliery Co., Ltd.....	Mt. Carbon.....
281	"	Edwardes.....	drift	The Gt. Kanawha Colliery Co., Ltd.....	Mt. Carbon.....
282	"	Rhinolas.....	drift	The Gt. Kanawha Colliery Co., Ltd.....	Mt. Carbon.....
283	"	No. 5.....	drift	The Gt. Kanawha Colliery Co., Ltd.....	Mt. Carbon.....
284	"	#Digby.....	drift	The Gt. Kanawha Colliery Co., Ltd.....	Mt. Carbon.....

*Just being developed. #Idle all year. *Being re-opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
Harry Hart.....	Frank Wright.....	Pittsburg.	4-6..	furnace...	95	233
Harry Hart.....	James Smith.....	Pittsburg.	4-6..	furnace...		234
Howard Robinson.....	Robt. Knight.....	Pittsburg.	4-10..	furnace...	30	235
J. Icenhower.....	P. F. Daley.....	Pittsburg.	5-0..	shaft.....	30	236
Thos. D. Harris.....	John Harris.....	Pittsburg.	4-6..	shaft.....	7	237
W. C. Mitchell.....	Joseph Virgin.....	Pittsburg.	5-6..	fan.....	117	238
W. C. Mitchell.....	Joseph Virgin.....	Pittsburg.	5-6..	fan.....	97	239
Ed. Schonebaum.....	David Santrock.....	Pittsburg.	6-0..	furnace...	55	240
Ed. Schonebaum.....	Andrew Utt.....	Pittsburg.	6-0..	fan.....	275	241
Ed. Schonebaum.....	Robert Fields.....	Pittsburg.	6-0..	fur. & nat.		242
E. B. Warrall.....	Geo. W. Cawley.....	Pittsburg.	5-9..	fan.....	177	243
D. L. Thomas.....	Wm. Thomas.....	Pittsburg.	3-10..	fan.....	25	244
Robert G. Gill.....	John Pope.....	Pittsburg.	5-8..	fan.....	31	245
John Wurts.....	L. W. Foster.....	Eagle.....	6-0..	furnace...	25	246
T. E. Roan.....	H. E. Taylor.....	No. 2 Gas.	5-6..	fan.....	106	247
T. E. Roan.....	Arthur Mitchell.....	No. 2 Gas.	5-4..	fan.....	164	248
T. E. Roan.....	Robert Taylor.....	No. 2 Gas.	5-6..	fan.....	179	249
T. E. Roan.....	Robert Taylor.....	No. 2 Gas.	5-9..	fan.....	150	250
T. E. Roan.....	C. D. Birthisel.....	No. 2 Gas.	5-0..	fan.....	98	251
G. H. Marting.....	John Philipps.....	No. 2 Gas.	5-6..	2 fans.....	130	252
Thos. A. Bartlam.....	John Titlow.....	No. 2 Gas.	5-0..	fan.....	108	253
Thos. A. Bartlam.....	Benj. Hill.....	No. 2 Gas.	5-0..	fan.....	90	254
W. M. Gillie.....	Mike Blythe.....	No. 2 Gas.	5-6..	fan.....	124	255
W. M. Gillie.....	J. W. Straughan.....	Eagle No. 1	6-3..	2 fans.....	158	256
W. M. Gillie.....	Henry Deem.....	No. 2 Gas.	5-6..	fan.....	118	257
Geo. Krebs.....	.....	No. 2 Gas.	.....	.....	.....	258
Geo. Fraser.....	D. B. Howry.....	No. 2 Gas.	4-0..	fan.....	15	259
Geo. Fraser.....	D. B. Howry.....	No. 2 Gas.	4-4..	fan.....	56	260
Geo. Fraser.....	James Fraser.....	No. 5 Split	6-0..	natural...	55	261
Louis W. Atkinson.....	Pat Walker.....	Eagle.....	4-6..	fan.....	42	262
Louis W. Atkinson.....	Wm. Knight.....	No. 2 Gas.	5-0..	fan.....	46	263
L. P. White.....	James Davis.....	Eagle.....	4-0..	2 furnaces.	64	264
T. A. Bartlam.....	A. J. Kirby.....	Eagle.....	3-2..	fan.....	9	265
T. A. Bartlam.....	A. J. Kirby.....	No. 2 Gas.	5-0..	natural...	16	266
T. A. Bartlam.....	A. J. Kirby.....	No. 5 Split	6-0..	natural...	62	267
Frank Carver.....	Alfred Carver.....	No. 2 Gas.	5-0..	fan.....	60	268
Frank Carver.....	Geo. Canterbury.....	No. 5 Split	6-0..	natural...	44	269
Enoch Carver.....	John E. Carver.....	No. 2 Gas.	4-8..	fan.....	107	270
Enoch Carver.....	John E. Carver.....	No. 2 Gas.	4-8..			271
Enoch Carver.....	John E. Carver.....	Eagle.....	3-6..	fan.....	38	272
Enoch Carver.....	John E. Carver.....	Eagle.....	3-6..			273
Enoch Carver.....	John E. Carver.....	Eagle.....	3-6..			274
Enoch Carver.....	John E. Carver.....	No. 5 Split	7-0..			275
Enoch Carver.....	John Tasker.....	No. 2 Gas.	.....	.....	.....	276
D. T. Evans.....	John I. Absalom.....	Powellton.	5-10..	fan & nat.	127	277
D. T. Evans.....	James Youell.....	Powellton.	5-10..	natural...	26	278
D. T. Evans.....	J. W. Green.....	Eagle.....	3-8..	natural...	42	279
R. J. Stegall.....	Tom Fyfe.....	No. 2 Gas.	4-6..	natural...	52	280
R. J. Stegall.....	Tom Fyfe.....	Eagle.....	2-10..	natural...	13	281
R. J. Stegall.....	Tom Fyfe.....	Eagle.....	3-5..	furnace...	32	282
R. J. Stegall.....	J. Wedgewood.....	No. 5 Split	7-6..	natural...	18	283
R. J. Stegall.....	.....	No. 2 Gas.	5-0..	natural...	.....	284

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
285	Fayette	Kimberly No. 1	drift	Cardiff Coal Co.	Charleston
286	"	Kimberly No. 2	drift	Cardiff Coal Co.	Charleston
287	"	Columbia	drift	Cardiff Coal Co.	Charleston
288	"	Elk Ridge No. 1	drift	Cardiff Coal Co.	Charleston
289	"	Elk Ridge No. 2	drift	Cardiff Coal Co.	Charleston
290	"	Gauley Mt. No. 1	drfts	Gauley Mountain Coal Co.	Ansted
291	"	Gauley Mt. No. 2	drfts	Gauley Mountain Coal Co.	Ansted
292	"	†Eagle	drfts	Loup Creek Colliery Co.	Page
293	"	†Ansted	drfts	Loup Creek Colliery Co.	Page
294	"	Gaymont	drift	Newcastle Coal Co.	Gaymont
295	"	Elmo	drift	Isabel Coal & Coke Co.	Charleston
296	"	Sunnyside	drift	Isabel Coal & Coke Co.	Charleston
297	"	Dimmock	drift	Isabel Coal & Coke Co.	Charleston
298	"	Michigan	drift	Michigan Coal Co.	Fayette
299	"	Fayette	drift	The Fayette Coal & Coke Co.	Fayette
300	"	Kay Moor No. 1	drift	Low Moor Iron Co. of Va.	Kay Moor
301	"	Kay Moor No. 2	drift	Low Moor Iron Co. of Va.	Kay Moor
302	"	Whitney	drift	Catacraft Colliery Co.	Kanawha Falls
303	"	Newlyn	drift	Manufacturers & Consumers Coal Co.	Fayette
304	"	Nuttallburg	drift	Nuttallburg Coal & Coke Co.	Nuttallburg
305	"	Keeneys Creek	drift	Nuttallburg Coal & Coke Co.	Nuttallburg
306	"	Brown	drift	Brown Coal Co.	Nuttallburg
307	"	Boone	drift	Boone Coal & Coke Co.	Boone
308	"	Ballinger No. 1	drift	Ballinger Coal Co.	Nuttallburg
309	"	Ballinger No. 2	drift	Ballinger Coal Co.	Nuttallburg
310	"	Blume	drift	Blume Coal & Coke Co.	Lookout
311	"	Smokeless	drift	Smokeless Coal Co.	Winona
312	"	Dubree	drift	Rothwell Coal Co.	Dubree
313	"	†Quarrier	drift	Rothwell Coal Co.	Dubree
314	"	North Victoria	drift	Chapman Iron, C. & C. Co.	Caperton
315	"	South Victoria	drift	Chapman Iron, C. & C. Co.	Caperton
316	"	Elverton	drift	Chapman Iron, C. & C. Co.	Caperton
317	"	Central	drift	Chapman Iron, C. & C. Co.	Fire Creek
318	"	†Cliff Top	drift	Longdale Iron Co.	Sewell
319	"	†Kohinoor	drift	Pennsylvania & New River Coal Co.	Fire Creek
320	"	Cunard	drift	The New River Smokeless Coal Co.	Rush Run
321	"	Brooklyn	drift	The New River Smokeless Coal Co.	Rush Run
322	"	Red Ash	drift	The New River Smokeless Coal Co.	Rush Run
323	"	Rush Run	drift	The New River Smokeless Coal Co.	Rush Run
324	"	Sun No. 1	slope	The New River Smokeless Coal Co.	Rush Run
325	"	Sun No. 3	slope	The New River Smokeless Coal Co.	Rush Run
326	"	Sun No. 2	shaft	The New River Smokeless Coal Co.	Rush Run
327	"	Fire Creek	drift	Fire Creek Coal & Coke Co.	Fire Creek
328	"	Echo	drift	Echo Coal & Coke Co.	Beury
329	"	Thurmond No. 1	drift	The Thurmond Coal Co.	Concho
330	"	Erskine	drift	The Thurmond Coal Co.	Concho
331	"	Stone Cliff	drift	Stone Cliff Coal & Coke Co.	Charleston
332	"	Beechwood No. 1	drift	The Beechwood C. & C. Co.	Claremont
333	"	Beechwood No. 2	drift	The Beechwood C. & C. Co.	Claremont
334	"	Alaska	drift	Alaska Coal & Coke Co.	Claremont
335	"	Ridgeview	drift	Ridgeview Coal Co.	Thayer
336	"	Buffalo	drift	Ephraim Creek C. & C. Co.	Thayer
337	"	Slater	drift	Ephraim Creek C. & C. Co.	Thayer
338	"	Harvey No. 1	drift	Harvey Coal & Coke Co.	Harvey
339	"	Harvey No. 2	drift	Harvey Coal & Coke Co.	Harvey
340	"	Prudence	3 drfts	Prudence Coal Co.	Prudence
341	"	Star	drift	The Star Coal & Coke Co.	Red Star

†Just being developed. ‡Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
W. A. Carver.....	Ed. Forbes.....	No. 2 Gas.	6-0..	} fan.....	63	285
W. A. Carver.....	Ed. Forbes.....	No. 2 Gas.	6-0..			286
W. A. Carver.....	Geo. Hartwell.....	No. 2 Gas.	4-6..	} fan.....	35	287
W. A. Carver.....	Stephen Riggs.....	Powellton.	6-0..			288
W. A. Carver.....	E. J. Stanley.....	Powellton.	6-0..	} furnace.	42	289
R. C. Taylor.....	James A. Martin.....	No. 2 Gas.	5-0..			290
R. C. Taylor.....	James A. Martin.....	No. 2 Gas.	5-0..	} furnaces..	412	291
F. P. Mills, Gen. Mgr..	D. S. Dooley.....	Eagle.....	5-3..			292
F. P. Mills, Gen. Mgr..	D. S. Dooley.....	No. 2 Gas.	5-7..	} furnaces..	87	293
H. B. Clarkson.....	Thomas Toler.....	Sewell.....	3-0..			294
G. D. McDaniel.....	John Seymour.....	Sewell.....	3-2..	} fan.....	48	295
G. D. McDaniel.....	Richard Seymour.....	Sewell.....	3-3..			296
J. H. Dempsey.....	J. H. Dempsey.....	Fire Creek	4-0..	} natural....	25	297
James D. Boone.....	Val. Bachman.....	Sewell.....	3-2..			298
M. W. Brellahan.....	James Lomax, Jr.....	Sewell.....	3-4..	} furnace....	89	299
H. D. Gast.....	J. W. McBrayer.....	Sewell.....	3-8..			300
H. D. Gast.....	A. R. Jones.....	Sewell.....	2-7..	} furnace....	37	301
J. M. Clark, G. M.....	G. L. Moran.....	Sewell.....	3-4..			302
P. H. Henry.....	James W. Simms.....	Sewell.....	3-0..	} furnace....	42	303
L. C. Beirne.....	B. F. Dorsey.....	Sewell.....	3-10..			304
L. C. Beirne.....	Henry R. Neal.....	*Sewell.....	3-6..	} natural....	32	305
J. A. Boone.....	W. A. Jones.....	*Nuttall.....	3-10..			306
W. F. Boone.....	P. A. Ohlinger.....	Nuttall.....	3-8..	} natural....	42	307
Geo. Holland.....	John Ohlinger.....	Nuttall.....	3-10..			308
Geo. Holland.....	Fred Ohlinger.....	Nuttall.....	3-7..	} natural....	67	309
D. W. Boone.....	Thomas Stead.....	Sewell.....	3-8..			310
J. D. Campbell.....	W. R. Hall.....	Sewell.....	4-0..	} natural....	132	311
H. H. Rothwell.....	Chas. Higgins.....	Nuttall.....	3-8..			312
H. H. Rothwell.....	Nuttall.....	Nuttall.....	3-8..	} furnace....	52	313
U. K. Custred.....	Ed. Littlejohn.....	Sewell.....	3-8..			314
U. K. Custred.....	Ed. Gordon.....	Sewell.....	3-8..	} natural....	218	315
U. K. Custred.....	J. W. Hurt.....	Sewell.....	3-6..			316
U. K. Custred.....	H. Campbell.....	Fire Creek	3-4..	} furnace....	25	317
		Sewell.....	3-0..			318
Geo. Scott.....	Robt. Aldridge.....	Fire Creek	3-6..	} furnace....		319
John Laing.....	J. L. Perfater.....	Sewell.....	4-0..			320
John Laing.....	J. W. Laing.....	Sewell.....	4-6..	} fan.....	57	321
John Laing.....	T. E. Sutton.....	Fire Creek	5-0..			322
John Laing.....	Will Laing.....	Fire Creek	5-0..	} fan.....	106	323
John Laing.....	James Martin.....	Sewell.....	5-6..			324
John Laing.....	James Martin.....	Sewell.....	5-6..	} fan.....	175	325
John Laing.....	James Martin.....	Sewell.....	5-6..			326
G. H. Caperton.....	Zeb Arrington.....	Fire Creek	3-4..	} natural....	74	327
H. B. Beury.....	W. C. Rowe.....	Fire Creek	4-8..			328
W. M. Warwick.....	Otho Price.....	Sewell.....	4-6..	} fan.....	88	329
W. M. Warwick.....	John Price.....	Fire Creek	4-6..			330
J. H. Dempsey.....	Sandy Thompson.....	Fire Creek	3-6..	} furnace....	65	331
C. C. Beury.....	R. B. Hanna.....	Fire Creek	4-6..			332
C. C. Beury.....	R. B. Hanna.....	Fire Creek	4-6..	} fan.....	56	333
Geo. Lawton.....	S. M. Peters.....	Fire Creek	4-0..			334
J. H. Dempsey.....	John Harris.....	Fire Creek	3-6..	} natural....	31	335
Henry Brooke.....	Thos. L. Pugh.....	Fire Creek	4-0..			336
Henry Brooke.....	Thos. L. Pugh.....	Fire Creek	4-0..	} fan.....	116	337
A. P. Gibson.....	J. A. McCallister.....	Sewell.....	5-3..			338
A. P. Gibson.....	J. A. McCallister.....	Sewell.....	5-3..	} fan.....	190	339
H. A. Moseley.....	W. S. Williamson.....	Sewell.....	6-0..			340
Geo. W. Jones.....	David Evandoll.....	Sewell.....	5-0..	} 2 fans....	209	341
						341

*Sewell and Nuttall are different names for the same seam.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
342	Fayette	Collins No. 1.....	drift	Collins Colliery Co.....	Glen Jean.....
343	"	Collins No. 2.....	drift	Collins Colliery Co.....	Glen Jean.....
344	"	Whipple.....	shaft	Whipple Colliery Co.....	Whipple.....
345	"	Derryhale.....	drift	McKell Coal & Coke Co.....	Glen Jean.....
346	"	Kilsyth.....	drift	McKell Coal & Coke Co.....	Glen Jean.....
347	"	Laura.....	drift	Laura Mining Co.....	Glen Jean.....
348	"	Dunloop No. 1.....	drift	Dunn Loop Coal & Coke Co.....	Dunloop.....
349	"	Dunloop No. 2.....	drift	Dunn Loop Coal & Coke Co.....	Dunloop.....
350	"	Newlyn.....	drift	Newlyn Coal Co.....	Thurmond.....
351	"	Dunglen.....	drift	The Dunglen Coal Co.....	Thurmond.....
352	"	Turkey Knob.....	drift	The Turkey Knob Coal Co.....	Macdonald.....
353	"	Macdonald.....	drift	The Macdonald Colliery Co.....	Macdonald.....
354	"	Sugar Creek.....	slope	Sugar Creek Coal & Coke Co.....	Macdonald.....
355	"	Price Hill.....	2 shfts	Price Hill Colliery Co.....	Macdonald.....
356	"	Mt. Hope.....	drift	Mt. Hope Coal & Coke Co.....	Mt. Hope.....
357	"	Scarbro No. 1.....	shaft	The White Oak Fuel Co.....	Scarbro.....
358	"	Scarbro No. 1.....	shaft	The White Oak Fuel Co.....	Scarbro.....
359	"	Wingrove.....	shaft	The White Oak Fuel Co.....	Scarbro.....
360	"	Carlisle.....	shaft	The White Oak Fuel Co.....	Scarbro.....
361	"	Oakwood.....	shaft	The White Oak Fuel Co.....	Scarbro.....
362	"	Parral.....	shaft	Stuart Colliery Co.....	Parral.....
363	"	Beech Creek.....	drift	Stuart Colliery Co.....	Parral.....
364	"	Stuart.....	shaft	Stuart Colliery Co.....	Stuart.....
365	"	Big Q.....	drift	Quinnimont Coal Co.....	Quinnimont.....
366	"	Lick Branch.....	drift	Quinnimont Coal Co.....	Quinnimont.....
367	"	Robins.....	drift	Robins Coal Co.....	Quinnimont.....
368	"	Glendale.....	drift	Glendale Colliery Co.....	Lawton.....
369	"	Laurel Creek.....	drift	Laurel Creek Coal Co.....	Quinnimont.....
370	"	Greenwood.....	2 dfts	Greenwood Coal Co.....	Lawton.....
371	"	Hemlock.....	drift	Hemlock Hollow Coal Co.....	Lawton.....
372	"	*Export.....	drift	Export Colliery Co.....	Lawton.....
373	"	No. 1.....	drift	*New River & Pocahontas Consolidated Coal Co.....	Rend.....
374	"	No. 2.....	drift	*New River & Pocahontas Consolidated Coal Co.....	Rend.....
375	"	No. 3.....	drift	*New River & Pocahontas Consolidated Coal Co.....	Rend.....
376	"	No. 4.....	drift	*New River & Pocahontas Consolidated Coal Co.....	Rend.....
377	"	No. 5.....	drift	*New River & Pocahontas Consolidated Coal Co.....	Rend.....
378	"	No. 2 Gas.....	drift	Gamoca Coal Co.....	Gamoca.....
379	"	No. 5 Splint.....	drift	Gamoca Coal Co.....	Gamoca.....
380	"	Deitz.....	drift	Deitz Colliery Co.....	Wyndal.....
381	"	No. 5.....	drift	Deitz Colliery Co.....	Wyndal.....
382	"	Lynchburg.....	drift	Lynchburg Colliery Co.....	Vanetta.....
383	Nicholas	Bell Creek.....	drift	Bell Creek Coal Co.....	Belva.....
384	"	No. 1.....	drift	The Columbus Coal Co.....	Vaughan.....
385	"	Cambria.....	drift	The Cambria Mining Co.....	Cambria.....
386	"	Mt. Carmel.....	drift	Mt. Carmel Coal & Coke Co.....	Cambria.....
387	"	National.....	drift	The National C. & C. Co.....	Cambria.....
388	"	Arminius No. 1.....	drift	The Arminius Coal Co.....	Scotford.....
389	"	Greendale.....	drift	The Gauley Co.....	Gauley Bridge..
390	Raleigh	Royal.....	drift	The New River Smokeless Coal Co.....	Rush Run.....
391	"	Lanark No. 1.....	drift	The New River Smokeless Coal Co.....	Rush Run.....
392	"	Lanark No. 2.....	drift	The New River Smokeless Coal Co.....	Rush Run.....
393	"	Raleigh No. 1.....	drift	Raleigh Coal & Coke Co.....	Raleigh.....
394	"	Raleigh No. 2.....	drift	Raleigh Coal & Coke Co.....	Raleigh.....
395	"	Raleigh No. 4.....	drift	Raleigh Coal & Coke Co.....	Raleigh.....
396	"	Raleigh No. 3.....	drift	Raleigh Coal & Coke Co.....	Raleigh.....
397	"	Wright.....	drift	The Wright Coal & Coke Co.....	Wright.....
398	"	Pack.....	drift	The Wright Coal & Coke Co.....	Wright.....
399	"	Piney No. 1.....	drift	Piney Colliery.....	Stanaford.....

*Idle all year. ‡Just being opened. *Formerly W. P. Rend.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superinten- dent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ven- tilation.	Total Inside Employees.	No.
Geo. P. Daniels.....	G. Hilditch.....	Sewell	5-0 ..	fan	425	342
Geo. P. Daniels.....	G. Hilditch.....	Sewell	5-0 ..	fan		343
James Clark.....	Mathew Charlton.....	Sewell	5-0 ..	fan		109 344
G. Smith.....	T. A. Lewis.....	Sewell	5-6 ..	fan		140 345
A. H. Lewis.....	T. T. Lewis.....	Sewell	5-0 ..	fan	235 346	
E. A. Trevor.....	A. L. Nelson.....	Sewell	5-0 ..	furnace ..	27 347	
J. B. McGuffin.....	Perry Gorman.....	Sewell	5-0 ..	furnace ..	73 348	
J. B. McGuffin.....	John Filbin.....	Sewell	5-6 ..	fan	123 349	
Edward Thomas.....	Geo. Burdiss.....	Fire Creek	3-6 ..	natural ...	15 350	
Leo Schaffer.....	J. C. Fenemore.....	Sewell	4-10 ..	natural ...	27 351	
D. F. Settle.....	John Ord.....	Sewell	5-0 ..	fan	105 352	
F. W. Scarborough, G. M.	V. A. Miller.....	Sewell	5-0 ..	fan	162 353	
N. S. Blake.....	F. L. Ramey.....	Sewell	5-6 ..	fan	151 354	
F. W. Scarborough, G. M.	.....	.....	.....	.....	355	355
A. P. Bailey.....	.....	.....	.....	.....	356	356
J. W. Wilson.....	Ralph Brabban.....	Sewell	4-6 ..	fan	230 357	
J. W. Wilson.....	Wm. Brabban.....	Sewell	4-4 ..	fan	42 358	
J. W. Wilson.....	Wm. Brabban.....	Sewell	4-8 ..	fan	45 359	
G. R. Krebs.....	James Robinson.....	Sewell	4-5 ..	fan	86 360	
G. R. Krebs.....	Wm. Ellis.....	Sewell	4-1 ..	fan	58 361	
J. P. Davis.....	Wm. Neil.....	Sewell	4-2 ..	fan	11 362	
J. P. Davis.....	David Lindsay.....	Eagle.....	3-10 ..	natural ...	11 363	
F. F. Dixon.....	Wm. H. Thompson.....	Sewell	4-2 ..	fan	73 364	
C. B. Helwig.....	D. F. Johnson.....	Fire Creek	4-0 ..	natural ...	61	365
C. B. Helwig.....	D. F. Johnson.....	Fire Creek	4-0 ..	natural ...		366
R. Howells.....	R. Howells.....	Fire Creek	2-6 ..	natural ...	24 367	
Joseph H. Boyd.....	J. E. Le Sueur.....	Fire Creek	4-0 ..	natural ...	45 368	
I. W. Rowe.....	E. J. Dooley.....	Fire Creek	3-10 ..	fan	60 369	
W. A. Brown.....	H. C. Peters.....	Fire Creek	4-0 ..	fan	130 370	
W. A. Brown.....	A. J. Brown.....	Fire Creek	4-0 ..	natural ...	80 371	
J. Jenkins.....	.....	Fire Creek	4-0 ..	.....	.....	372
J. N. Schweitzer.....	A. McDaniel.....	Fire Creek	5-0 ..	fan	46 373	
J. N. Schweitzer.....	W. C. Carmon.....	Sewell	4-6 ..	fan	116 374	
J. N. Schweitzer.....	J. L. Huffman.....	Sewell	4-6 ..	fan	99 375	
J. N. Schweitzer.....	B. F. Tettlow.....	Sewell	4-6 ..	fan	123 376	
J. N. Schweitzer.....	J. T. Shearer.....	Sewell	4-0 ..	fan	98 377	
J. M. Campbell.....	W. H. Duncan.....	No. 2 Gas.	4-0 ..	furnace ..	45 378	
J. M. Campbell.....	M. E. Nelson.....	No. 5 Spl't	6-0 ..	furnace ..	33 379	
T. A. Deitz.....	L. D. Moran.....	No. 2 Gas.	4-0 ..	furnace ..	59 380	
T. A. Deitz.....	L. D. Moran.....	No. 5 Spl't	.....	.....	.....	381
T. A. Deitz.....	Wm. Whitlock.....	No. 2 Gas.	4-3 ..	furnace ..	50 382	
C. G. Wood.....	C. G. Wood.....	Coalburg..	4-0 ..	fan	61 383	
Taylor Hays.....	John Kirby.....	No. 2 Gas.	4-6 ..	furnace ..	20 384	
A. R. Jones.....	F. E. Coleman.....	Coalburg..	4-4 ..	furnace ..	23 385	
F. W. Magrady.....	Charles Green.....	Coalburg..	4-9 ..	fan	31 386	
Chas. Jasper.....	Jack Smith.....	Coalburg..	3-10 ..	stack.....	14 387	
G. E. Smith.....	S. W. Smith.....	Coalburg..	4-2 ..	furnace ..	17 388	
C. C. Sharp.....	Martin Welsh.....	Coalburg..	4-2 ..	basket.....	9 389	
John Laing, Gen. Supt.	Charles Stover.....	Fire Creek	4-0 ..	natural ...	62 390	
John Laing, Gen. Supt.	David Laing.....	Fire Creek	2-10 ..	natural ...	63	391
John Laing, Gen. Supt.	Morris McGuire.....	Sewell	4-6 ..	natural ...		392
R. A. McClure.....	E. B. Thompson.....	Fire Creek	5-0 ..	fan	65	393
R. A. McClure.....	E. B. Thompson.....	Fire Creek	5-0 ..	fan		394
R. A. McClure.....	E. B. Thompson.....	Fire Creek	5-0 ..	fan		395
R. A. McClure.....	Ed. Zwilling.....	Fire Creek	5-0 ..	fan		95 396
W. Gaston Caperton.....	Wm. Hurt.....	Fire Creek	3-6 ..	fan	110 397	
W. Gaston Caperton.....	Tom Davis.....	Fire Creek	3-4 ..	furnace ..	35 398	
P. J. Riley.....	John Burns.....	Fire Creek	3-3 ..	furnace ..	41 399	

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY	Name of Mine	Kind of opening	Name of Company	Postoffice Address
400	Raleigh	Piney No. 2	drift	Piney Colliery	Stanaford
401	"	Piney No. 3.	drift	Piney Colliery	Stanaford
402	"	Stonewall No. 4.	drift	Stonewall Coal & Coke Co.	Stonewall
403	"	Terry	drift	Stonewall Coal & Coke Co.	Stonewall
404	"	Stonewall No. 3.	drift	Stonewall Coal & Coke Co.	Stonewall
405	"	Beckley	drift	Beckley Coal & Coke Co.	Wickham
406	"	Mabscott	drift	Mabscott Coal & Coke Co.	Mabscott
407	"	Oswald	drift	McKell Coal & Coke Co.	Glen Jean
408	"	Sidney	drift	McKell Coal & Coke Co.	Glen Jean
409	"	Graham	drift	McKell Coal & Coke Co.	Glen Jean
410	"	*Cranberry	2 shfs	Cranberry Colliery Co.	Beckley
411	"	*Cranberry	2 dfts	Cranberry Colliery Co.	Beckley

FOURTH DISTRICT, SAMUEL S. COOPER, INSPECTOR.

412	Logan	Monitor	drift	The Monitor Coal & Coke Co.	Logan
413	"	Gay	drift	The Gay Coal & Coke Co.	Logan
414	"	Draper	drift	Draper Coal & Coke Co.	Logan
415	"	*Big Creek	drift	Big Creek Coal Co.	Stone Branch
416	"	Island Creek No. 1.	drift	United States Coal & Oil Co.	Holden
417	"	Island Creek No. 2.	drift	United States Coal & Oil Co.	Holden
418	"	*Cora	drift	Cora Coke & Coke Co.	Logan
419	"	Stone Branch	drift	Stone Branch Coal Co.	Stone Branch
420	McDowell	Tidewater	drift	Tidewater Coal & Coke Co.	Vivian
421	"	Bottom Creek	drift	Bottom Creek Coal & Coke Co.	Vivian
422	"	Peerless	drift	Peerless Coal & Coke Co.	Vivian
423	"	Empire	drift	The Empire Coal & Coke Co.	Landgraf
424	"	Shawnee	drift	Shawnee Coal & Coke Co.	Eckman
425	"	Eureka	drift	Eureka Coal & Coke Co.	Eckman
426	"	Pulaski	drift	Pulaski Iron Co.	Eckman
427	"	Keystone No. 1.	drift	Keystone Coal & Coke Co.	Keystone
428	"	Keystone No. 2.	drift	Keystone Coal & Coke Co.	Keystone
429	"	Algoma Big Four	drift	Algoma Coal & Coke Co.	Algoma
430	"	Algoma North Fork	drift	Algoma Coal & Coke Co.	Algoma
431	"	Algoma Piney	drift	Algoma Coal & Coke Co.	Algoma
432	"	Gilliam	drift	Gilliam Coal & Coke Co.	Gilliam
433	"	Roanoke	drift	Roanoke Coal & Coke Co.	Worth
434	"	Indian Ridge	drift	Indian Ridge Coal & Coke Co.	Worth
435	"	Arlington	drift	Arlington Coal & Coke Co.	McDowell
436	"	Greenbrier	drift	Greenbrier Coal & Coke Co.	McDowell
437	"	McDowell	drift	McDowell Coal & Coke Co.	McDowell
438	"	Ashland No. 1.	drift	Ashland Coal & Coke Co.	Ashland
439	"	Ashland No. 2.	drift	Ashland Coal & Coke Co.	Ashland
440	"	Elk Ridge	drift	Elk Ridge Coal & Coke Co.	Kyle
441	"	Lynchburg	drift	Lynchburg Coal & Coke Co.	Kyle
442	"	Powhatan	drift	Powhatan Coal & Coke Co.	Powhatan
443	"	Upland No. 1.	drift	Upland Coal & Coke Co.	Elkhorn
444	"	Upland No. 2.	drift	Upland Coal & Coke Co.	Elkhorn
445	"	Houston No. 1.	drift	Houston Coal & Coke Co.	Elkhorn
446	"	Houston No. 2.	drift	Houston Coal & Coke Co.	Elkhorn
447	"	Crozer No. 1.	drift	Crozer Coal & Coke Co.	Elkhorn
448	"	Crozer No. 2.	drift	Crozer Coal & Coke Co.	Elkhorn
449	"	Turkey Gap	drift	Turkey Gap Coal & Coke Co.	Ennis
450	"	Norfolk	drift	The Pocahontas Consolidated Co.	Switchback
451	"	Angle	drift	The Pocahontas Consolidated Co.	Switchback
452	"	Lick Branch	drift	The Pocahontas Consolidated Co.	Switchback
453	"	Delta	drift	The Pocahontas Consolidated Co.	Switchback

*Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
P. J. Riley	John Burns	Fire Creek	5 - 6 ..	furnace	48	400
P. J. Riley	Chas. Fink	Sewell	4 - 0 ..	natural	35	401
F. T. Lee	Wm. Crickmer	Fire Creek	3 - 0 ..	shaft	6	402
F. T. Lee	Wm. Crickmer	Fire Creek	4 - 0 ..	shaft	29	403
F. T. Lee	James Dawson	Sewell	5 - 0 ..	stack	55	404
T. Bickel	Frank McHugh	Sewell	4 - 6 ..	fan	108	405
F. E. Walker	E. T. Hudson	Sewell	4 - 6 ..	furnace	52	406
A. J. Main	John Fenwick	Sewell	4 - 6 ..	furnace	44	407
A. J. Main	John Fenwick	Sewell	4 - 6 ..	furnace	11	408
A. J. Main	G. B. Smedley	Sewell	4 - 6 ..	furnace	30	409
F. W. Scarborough, G. M.	D. M. Rosser, Sinkers ..	.....	.....	.....	.....	410
F. W. Scarborough, G. M.	Robert Boyd	Sewell	4 - 6 ..	.....	.....	411
J. E. Barlow	E. M. Stephens	Kittan	6 - 1 ..	furnace	57	412
H. S. Gav	A. E. Thompson	Kittan	5 - 10 ..	furnace	30	413
Mathew Hall	J. Henry Hall	Kittan	5 - 2 ..	furnace	60	414
Jos. Kitchen .....	.....	Kittan	4 - 3 ..	.....	.....	415
Edward P. Merrill	H. D. Pennman	Kittan	7 - 0 ..	fan	51	416
Edward P. Merrill	H. D. Pennman	Kittan	7 - 0 ..	fan	149	417
M. Z. White	Plato Ketchen	Kittan	6 - 2 ..	.....	.....	418
W. H. Adams	W. H. Adams	Kittan	4 - 2 ..	furnace	12	419
S. B. Campbell	S. B. Campbell	Poca. No. 3 ..	5 - 6 ..	2 fans	109	420
S. W. Patterson	F. S. Carroll	Poca. No. 3 ..	6 - 0 ..	fan	135	421
L. E. Tierney	Thos. Welden	Poca. No. 3 ..	6 - 0 ..	fan	124	422
Wm. D. Ord	T. R. Barrett	Poca. No. 3 ..	5 - 10 ..	fan	230	423
P. P. Flanagan	Frank McCloskey	Poca. No. 3 ..	6 - 6 ..	fan	125	424
L. E. Tierney	C. C. Hughes	Poca. No. 3 ..	7 - 0 ..	fan	140	425
Percival Johnson	J. M. Shank	Poca. No. 3 ..	6 - 2 ..	fan	270	426
J. K. F. Steele	John Murray	Poca. No. 3 ..	6 - 6 ..	fan	165	427
J. K. F. Steele	John Murray	Poca. No. 3 ..	6 - 6 ..	fan .....	.....	428
Wm. J. Beury	M. F. Hensley	Poca. No. 3 ..	6 - 2 ..	fan .....	.....	429
Wm. J. Beury	Levi Bolden	Poca. No. 3 ..	6 - 2 ..	natural	150	430
Wm. J. Beury	John Stewart	Poca. No. 3 ..	6 - 2 ..	fan .....	.....	431
P. P. Flanagan	John Yost	Poca. No. 3 ..	6 - 0 ..	fan	140	432
W. C. Easley	Samuel Ferris	Poca. No. 3 ..	5 - 3 ..	fan	90	433
C. Botsford	H. H. Taylor	Poca. No. 3 ..	5 - 3 ..	fan	132	434
P. P. Flanagan	J. C. Campbell	Poca. No. 3 ..	6 - 0 ..	fan	105	435
Jairus Collins	G. W. Atkinson	Poca. No. 3 ..	6 - 0 ..	fan	110	436
T. H. Cooper	Jas. Devenny	Poca. No. 3 ..	5 - 0 ..	2 fans	186	437
T. J. O'Neil	T. N. Daugherty	Poca. No. 3 ..	4 - 8 ..	fan .....	.....	438
T. J. O'Neil	Frank Gallagher	Poca. No. 3 ..	4 - 8 ..	fan	230	439
L. E. Tierney	W. T. Hetterman	Poca. No. 3 ..	6 - 6 ..	fan	105	440
L. E. Tierney	T. Fitzsimons	Poca. No. 3 ..	7 - 0 ..	fan	130	441
L. E. Tierney	A. J. Dalton	Poca. No. 3 ..	7 - 6 ..	2 fans	130	442
John J. Lincoln	John A. Grantham	Poca. No. 3 ..	7 - 8 ..	fan .....	.....	443
John J. Lincoln	Thos. Grantham	Poca. No. 3 ..	7 - 8 ..	fan	170	444
Benj. Lewis	Chris. Kershaw	Poca. No. 3 ..	8 - 0 ..	fan .....	.....	445
Benj. Lewis	J. S. Woodyard	Poca. No. 3 ..	8 - 0 ..	fan	192	446
James R. Bailey	Wiley Kemp	Poca. No. 3 ..	8 - 0 ..	fan .....	.....	447
James R. Bailey	Geo. Guy	Poca. No. 3 ..	8 - 0 ..	fan	160	448
W. H. McQuail	J. P. Johnson	Poca. No. 3 ..	8 - 0 ..	fan	275	449
James Ellwood Jones ..	Wm. Walters	Poca. No. 3 ..	7 - 6 ..	fan .....	.....	450
James Ellwood Jones ..	R. S. Whitehead	Poca. No. 3 ..	7 - 6 ..	fan	350	451
James Ellwood Jones ..	B. H. English	Poca. No. 3 ..	7 - 6 ..	fan	205	452
James Ellwood Jones ..	J. K. Whitehead	Poca. No. 3 ..	7 - 6 ..	fan	195	453

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY	Name of Mine	Kind of opening	Name of Company.	Postoffice Address
454	McDowell	Shamokin	drift	The Pocahontas Consolidated Co.	Switchback
455	"	Rolfe	drift	The Pocahontas Consolidated Co.	Switchback
456	"	Cherokee	drift	The Pocahontas Consolidated Co.	Switchback
457	"	Elkhorn	drift	Elkhorn Coal & Coke Co.	Maybeury
458	"	No. 3 Slope	drift	Cirrus Coal & Coke Co.	Cirrus
459	"	Big Sandy	drift	Big Sandy Coal & Coke Co.	Big Sandy
460	"	West	drift	Vaughan Coal & Coke Co.	Rodenfield
461	"	Davey Crockett	drift	Davy Crockett Coal & Coke Co.	Hallsville
462	"	Tug River	drift	Pocahontas Coal Mining Co.	Marytown
463	"	Twin Branch	drift	Twin Branch Mining Co.	Twin Branch
464	"	Short Creek	drift	Short Creek Coal & Coke Co.	Lawrence
465	"	West	drift	Pocahontas Collieries Co.	Pocahontas, Va
466	"	Antler	drift	Antler Coal & Coke Co.	Antler
467	"	Blackstone	drift	Black Stone Consolidated Coal Co.	Hallsville
468	"	Cletus	drift	Black Stone Consolidated Coal Co.	Hallsville
469	"	No. 1	shaft	United States Coal & Coke Co.	Gary
470	"	Grapevine	shaft	United States Coal & Coke Co.	Gary
471	"	No. 2	4d'fts	United States Coal & Coke Co.	Gary
472	"	No. 3	drift	United States Coal & Coke Co.	Gary
473	"	No. 4	drift	United States Coal & Coke Co.	Gary
474	"	No. 5	drift	United States Coal & Coke Co.	Gary
475	"	No. 6	drift	United States Coal & Coke Co.	Gary
476	"	Maher	drift	Maher Coal & Coke Co.	Twin Branch
477	"	Flournoy No. 1	drift	Flournoy Colliery Co.	Hensley
478	"	Flournoy No. 2	drift	Flournoy Colliery Co.	Hensley
479	"	Hensley No. 1	drift	Hensley Coal Co.	Hensley
480	"	Mohawk	drift	Mohawk Coal & Coke Co.	Mohawk
481	"	Welch	drift	Welch Coal & Coke Co.	Welch
482	"	Hemphill	drift	Welch Coal & Coke Co.	Welch
483	"	Imo. or No. 1	drift	Oregon Coal Co.	Welch
484	"	McClaren or No. 2	drift	Oregon Coal Co.	Welch
485	"	Zenith Nos. 1 and 2	2d'fts	Zenith Coal & Coke Co.	Lambert
486	"	Page	drift	Page Coal & Coke Co.	Pageton
487	"	Elkhorn	shaft	Middle States Coal & Coke Co.	Olmsted
488	"	Helena	drift	Helena Coal Co.	Hallsville
489	"	*King	drift	King Coal Co.	Vivian
490	"	Coalwood No. 1	drift	Virginia Pocahontas Coal Co.	Coalwood
491	"	Coalwood No. 2	drift	Virginia Pocahontas Coal Co.	Coalwood
492	"	Coalwood No. 3	drift	Virginia Pocahontas Coal Co.	Coalwood
493	"	Coalwood No. 4	drift	Virginia Pocahontas Coal Co.	Coalwood
494	"	Mill Creek	drift	Mill Creek Coal & Coke Co.	Coopers
495	Mercer	West Side	drift	Mill Creek Coal & Coke Co.	Coopers
496	"	Coaldale	drift	Mill Creek Coal & Coke Co.	Coopers
497	"	Buckeye	drift	Buckeye Coal & Coke Co.	Freeman
498	"	Caswell Elkhorn	drift	The Pocahontas Consolidated Co.	Switchback
499	"	Caswell Hemlock	drift	The Pocahontas Consolidated Co.	Switchback

*Just being opened.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ven- tilation.	Total Inside Employes.	No.
James Ellwood Jones..	A. O. Cooper	Poca.No. 3	7 - 6 ..	fan	160	454
James Ellwood Jones..	J. C. Campbell	Poca.No. 3	5 - 6 ..	fan	75	455
James Ellwood Jones..	Ellis Sheets	Poca.No. 3	5 - 6 ..	fan	45	456
R. S. Ord	L. B. Holliday	Poca.No. 3	7 - 2 ..	fan	213	457
James F. Brophy	John Watt	Poca.No. 3	5 - 6 ..	2 fans	42	458
D. M. Woody	John Short	Welch	4 - 0 ..	fan	95	459
Mathew Hall	H. P. Hall	Welch	4 - 0 ..	furnace	55	460
F. S. Gordon	Lane Hubbard	Welch	3 - 0 ..	furnace	38	461
D. M. Woody	C. P. Woody	Welch	4 - 0 ..	fan	82	462
J. E. Rhodemyre	James McBrayer	Welch	3 - 8 ..	fan	75	463
James Johnston	James Johnston	Welch	3 - 0 ..	furnace	25	464
Wm. Leckie	Ed. Jones	Poca.No. 3	9 - 6 ..	fan	45	465
N. L. Fleeman	N. L. Fleeman	Welch	3 - 0 ..	shaft	42	466
W. B. Honaker	S. S. Harris	Welch	4 - 0 ..	furnace	60	467
W. B. Honaker	S. S. Harris	Welch	4 - 0 ..	furnace		468
Jos. Malia	{ Frank Maloney ..	Poca.No. 4	5 - 8 ..	{ fan	232	469
Jos. Malia	{ J. A. Miller and Mike Booker	Poca.No. 3	5 - 8 ..			470
M. Connelly	John Sharfeneker	Poca.No. 4	5 - 7 ..	fan	160	471
F. E. King	Michael Brady	Poca.No. 4	4 - 10 ..	fan	206	472
M. McParland	W. A. Lilly	Poca.No. 3	6 - 2 ..	fan	102	473
M. McParland	John Mullin	Poca.No. 3	7 - 0 ..	fan	52	474
A. J. Stewart	Josiah Rhodes	Poca.No. 4	6 - 6 ..	fan	108	475
J. E. Rhodemyre	S. J. Whitt	Welch	3 - 8 ..	furnace	33	476
C. O. Smith	M. W. Hyrne	Welch	3 - 6 ..	furnace	25	477
C. O. Smith	M. W. Hyrne	Welch	3 - 6 ..	furnace	42	478
C. O. Smith	Mark Hyrne	Welch	3 - 6 ..	furnace	42	479
James F. Bohannon	James Huntsman	Welch	5 - 6 ..	fan	48	480
C. A. Devenny	W. T. Spicer	Welch	3 - 6 ..	furnace	25	481
C. A. Devenny	Wm. H. Devenny	Welch	4 - 0 ..	furnace	25	482
F. J. Baxter	T. G. Sheldon	Welch	4 - 4 ..	furnace	74	483
F. J. Baxter	T. G. Sheldon	Welch	4 - 4 ..	furnace		484
S. S. Coffman	Bailey Reed	Poca.No. 3	4 - 9 ..	2 fans	63	485
W. A. Moore	E. W. Buchanon	Poca.No. 3	7 - 6 ..	fan	46	486
Geo. Gully	J. G. Mitchell	Poca.No. 4	5 - 8 ..	fan	34	487
C. W. Keister	E. C. Grigg	Welch	3 - 6 ..	furnace	38	488
Wm. Steebergen	Wm. Steebergen	Poca.No. 3	5 - 6 ..	furnace		489
Aaron Collier	J. W. Alley	Poca.No. 3	6 - 0 ..	furnace	75	490
Aaron Collier	J. E. Meckey	Poca.No. 3	6 - 0 ..	furnace		491
Aaron Collier	H. H. Fisher	Poca.No. 3	6 - 0 ..	furnace		492
Aaron Collier	J. W. Alley	Poca.No. 3	6 - 0 ..	furnace	160	493
I. K. Anderson	G. L. Smith	Poca.No. 3	8 - 0 ..	fan		494
I. K. Anderson	Wm. Pettitt	Poca.No. 3	8 - 0 ..	fan		495
I. K. Anderson	Thos. Williams	Poca.No. 3	8 - 4 ..	2 fan	190	496
I. C. Pack	Thos. Gent	Poca.No. 3	5 - 6 ..	fan	115	497
James Ellwood Jones..	Thos. Brazeal	Poca.No. 3	7 - 6 ..	fan	210	498
James Ellwood Jones..	Frank Smith	Poca.No. 3	7 - 6 ..	fan		499

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
500	Mercer	Sagamore	drift	The Pocahontas Consolidated Co.	Switchback
501	"	Booth-Bowen	drift	Booth-Bowen C. & C. Co.	Freeman
502	"	Louisville	3 dfts	Louisville Coal & Coke Co.	Goodwill
503	"	Goodwill	drift	The Goodwill C. & C. Co.	Goodwill
504	"	Pinnacle	2 dfts	American Coal Co.	McComas
505	"	Crane Creek No. 1	drift	American Coal Co.	McComas
506	"	Crane Creek No. 2	drift	American Coal Co.	McComas
507	"	Crystal	drift	Crystal Coal & Coke Co.	Godfrey
508	"	Thomas	drift	Thomas Coal Co.	McComas
509	"	Yukon (abandoned)	drift	Yukon Coal Co.	Bramwell
510	"	Weyanoke	drift	Weyanoke Coal & Coke Co.	Giatto
511	"	Spring	drift	Spring Coal Mining Co.	Tigertown
512	"	Piedmont	drift	Piedmont Colliery	Widemouth
513	"	Nos. 1 & 2	2 dfts	Wenonah Coal & Coke Co.	Dott
514	"	Hiawatha	drift	Hiawatha Coal & Coke Co.	Hiawatha
515	"	Smokeless	drift	The Smokeless C. & C. Co.	Hiawatha
516	"	+Paama	drift	Paama Coal & Coke Co.	Matoaka
517	"	Cephas	drift	Cephas Coal Co.	Godfrey
518	Mingo	Camp Branch	drift	Pearl Coal Mining Co.	Dingess
519	"	Pearl (abandoned)	drift	Pearl Coal Mining Co.	Dingess
520	"	Sprigg	drift	Pearl Coal Mining Co.	Dingess
521	"	Haggerty	drift	Pearl Coal Mining Co.	Dingess
522	"	Rutherford	drift	Red Jacket Consolidated Coal & Coke Co.	Red Jacket
523	"	Red Jacket	2 dfts	Red Jacket Consolidated Coal & Coke Co.	Red Jacket
524	"	Maritime	drift	Red Jacket Consolidated Coal & Coke Co.	Thacker
525	"	Lick Fork	drift	Red Jacket Consolidated Coal & Coke Co.	Thacker
526	"	Grapevine	drift	Red Jacket Consolidated Coal & Coke Co.	Edgerton
527	"	Thacker No. 1	drift	Thacker Coal & Coke Co.	Thacker
528	"	Thacker No. 2	drift	Thacker Coal & Coke Co.	Thacker
529	"	Thacker No. 3	drift	Thacker Coal & Coke Co.	Thacker
530	"	Thacker No. 10	drift	Thacker Coal & Coke Co.	Thacker
531	"	Lynn	drift	Thacker Coal & Coke Co.	Thacker
532	"	Glen Alum No. 1	drift	Glen Alum Coal Co.	Glen Alum
533	"	Glen Alum No. 2	drift	Glen Alum Coal Co.	Glen Alum
534	"	Winnifrede	drift	Nolan Coal Co.	Nolan
535	"	War Eagle	drift	War Eagle Coal Co.	War Eagle
536	"	Pappoose	drift	War Eagle Coal Co.	War Eagle
537	"	Hatfield	drift	Hatfield Colliery Co.	Nolan
538	"	Jackson	drift	Culrosa Coal Co.	Nolan
539	"	Mate Creek	drift	Mate Creek Coal Co.	Matewan
540	"	Marvin	drift	Marvin Coal Co.	Matewan
541	"	Margaret	5 dfts	The Margaret Mining Co.	War Eagle
542	"	Star	drift	H. A. Shaffer, Lessee	War Eagle
543	"	Cedar	drift	Cedar Coal Co.	Cedar
544	"	Merrimac Nos. 1 & 2	2 dfts	Merrimac Coal & Coke Co.	Merrimac
545	"	Coaling Station	drift	Merrimac Coal & Coke Co.	Merrimac
546	"	Williamson	drift	Williamson Coal & Coke Co.	Williamson
547	"	Sugar Tree	2 dfts	Goodman Coal & Coke Co.	Goodman
548	"	Howard	drift	Howard Colliery Co.	Chattaroy
549	"	Chattaroy	drift	Chattaroy Colliery Co.	Chattaroy
550	"	Buffalo	drift	The Buffalo Collieries Co.	Chattaroy
551	"	Rawl No. 1	drift	Rawl Coal & Coke Co.	Rawl
552	"	Rawl No. 2	drift	Rawl Coal & Coke Co.	Rawl
553	"	No. 1	drift	The Walnut Hills Coal & Mining Co.	Naugatuck
554	"	Lingohocken	drift	Lingohocken Coal Co.	Chattaroy
555	Wayne	East Lynn No. 1	drift	East Lynn Coal Co.	East Lynn

+Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kinds of Ven- tilation.	Total inside employees.	No.
James Ellwood Jones	T. C. Dooley	Poca. No.3	4-6	fan.	140	500
Harry Bowen	James H. Mitchell	Poca. No.3	7-6	fan.	137	501
Jairus Collins	A. M. Herndon	Poca. No.3	4-5	2 fans	120	502
Philip Goodwill	R. B. Foy	Poca. No.3	4-8	fan.	98	503
Calvin Shockley	James L. Duese	Poca. No.3	4-8	2 fans	129	504
Calvin Shockley	H. A. Frankenfield	Poca. No.3	4-8	fan.	164	505
Calvin Shockley	H. A. Frankenfield	Poca. No.3	4-8	fan.	164	506
R. E. Baldwin	L. H. Carter	Poca. No.3	4-8	fan.	65	507
W. J. Pritchard	James Hughes	Poca. No.3	4-8	fan.	100	508
H. M. Meyers	G. W. Bell	Poca. No.3	8-0	natural	12	509
R. D. Patterson	Frank Whit.	Poca. No.3	4-6	fan.	37	510
H. E. Harman	M. J. Sawder	Poca. No.3	4-4	furnace	24	511
Jairus Collins	James Barrowman	Poca. No.3	4-4	furnace	26	512
E. J. Vandergrift	J. H. Bragg	Poca. No.3	4-0	furnace	18	513
J. W. Vandergrift	John Shrewsbury	Poca. No.3	5-6	furnace	25	514
O. N. Moornaer	Chas. C. Thompson	Poca. No.3	5-0	furnace	12	515
J. Campbell Stras		Poca. No.3	3-9	furnace	12	516
T. D. Lee	Dave Thompson	Poca. No.3	4-6	furnace	12	517
J. R. Booth	A. Mitchell	*Lo. Kittan	4-0	furnace	12	518
J. R. Booth	John Kerns	Lo. Kittan	4-0	fan.	14	519
J. R. Booth	J. M. Murphy	*Thacker	4-0	furnace	28	520
J. R. Booth	John Booth	Lo. Kittan	4-0	fan.	33	521
W. R. Wilburn	Wm. Musser	Thacker	4-8	fan.	134	522
W. R. Wilburn	W. E. Funk	Thacker	4-6	fan.	198	523
E. C. Lambert	E. C. Lambert	Thacker	4-10	fan.	78	524
E. C. Lambert	A. Copley	Thacker	6-10	furnace	87	525
C. J. Adams	C. J. Adams	Thacker	12-0	furnace	77	526
Thos. Griffiths	Geo. Boyd	Thacker	6-6	furnace	95	527
Thos. Griffiths	Hugh Boyd	Thacker	6-6	fan.	251	528
Thos. Griffiths	T. A. Burford	Thacker	6-6	furnace	119	529
Thos. Griffiths	Leander Cox	Thacker	7-0	furnace	25	530
Thos. Griffiths	A. J. Younce	Thacker	4-0	furnace	120	531
P. P. Flanagan	M. Flanagan	Thacker	6-3	fan.	160	532
P. P. Flanagan	James Flanagan	Thacker	6-3	fan.	160	533
W. H. Smith	A. H. Mitchell	Winifrede	3-6	stack	20	534
Geo. W. Coffey	M. F. Booth	Kittan	6-0	furnace	325	535
Geo. W. Coffey	J. K. Coffey	Kittan	6-0	furnace	325	536
C. Culross	Jos. Dickerson	Winifrede	4-6	furnace	32	537
S. T. Lambert	Sam Moore	Winifrede	3-6	furnace	25	538
J. A. Williams	Wm. Sizemore	Thacker	4-0	furnace	46	539
James Clark	James Gent	Thacker	4-6	furnace	36	540
H. A. Shafter	George Montgomery	Lo. Kittan	5-0	natural	30	541
A. A. Mitchell	E. L. Brunk	Lo. Kittan	5-0	furnace	27	542
John E. Williams	R. C. Mitchell	Lo. Kittan	4-0	furnace	23	543
John E. Williams	W. G. Raynes	Lo. Kittan	3-6	furnace	37	544
John E. Williams	W. G. Raynes	Lo. Kittan	3-6	furnace	37	545
W. T. Poole	T. E. Elkins	Lo. Kittan	4-10	furnace	24	546
R. D. Baldwin	John Newcome	Winifrede	6-0	furnace	25	547
F. L. Schoew	John Rueger	Winifrede	6-0	furnace	30	548
C. E. Tabor	J. V. Hackworth	Winifrede	6-0	furnace	42	549
S. V. Preston	L. D. Jefferson	Winifrede	4-6	furnace	26	550
H. C. Jones	Thos. W. Phillips	Lo. Kittan	4-0	furnace	16	551
H. C. Jones	V. H. Lambert	Lo. Kittan	4-0	furnace	16	552
A. T. Massy	John Newcome	Lo. Kittan	4-10	furnace	23	553
J. W. Miskel	J. W. Miskel	Winifrede	4-6	natural	17	554
L. A. Carden	L. A. Carden	Winifrede	3-6	furnace	19	555

*Thacker and Lower Kittanning are the same seam.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

FIFTH DISTRICT, *EDWARD V. BYRNE, INSPECTOR.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
556	Barbour	Junior	drift	Davis Collery Co.	Elkins.
557	"	Philippi	4 dfts	Philippi Coal Mining Co.	Meriden.
558	"	Arden	drift	Tygarts River Coal Co.	Arden.
559	"	Berryburg	drift	The Southern Coal & Transportation Co.	Berryburg.
560	"	Laurel Creek	drift	Laurel Creek Coal Co.	Grafton.
561	"	No. 1	shaft	The Century Coal Co.	Century.
562	"	*No. 2	drift	The Century Coal Co.	Century.
563	"	+Valley	drift	Valley Coal & Coke Co.	Lehigh.
564	"	Lillian	drift	Freeport Smokeless Coal & Coking Co.	Grafton.
565	"	Adma	drift	The Pennsylvania Coal & Mining Co.	Belington.
566	"	Clements	drift	The Clements Coal & Coke Co.	Clements.
567	"	*Dartmoor	slope	*Davis Coal & Coke Co.	Weaver.
568	"	Sara	drift	Miller Coal & Coke Co.	Junior.
569	"	Volga No. 1	drift	Pennsylvania Fuel Co.	Grafton.
570	Grant	No. 22	shaft	Davis Coal & Coke Co.	Henry
571	"	No. 23	shaft	Davis Coal & Coke Co.	Henry
572	"	Marion (abandoned)	drift	Marion Coal & Coke Co.	Piedmont.
573	"	Buffalo No. 1	drift	Buffalo Creek Cumberland Coal Co.	Bayard.
574	Minera	No. 19	drift	Davis Coal & Coke Co.	Beryl.
575	"	No. 18 (abandoned)	drift	Davis Coal & Coke Co.	Beryl.
576	"	No. 8 (abandoned)	drift	Davis Coal & Coke Co.	Beryl.
577	"	No. 20	drift	Davis Coal & Coke Co.	Elk Garden.
578	"	No. 9	drift	Davis Coal & Coke Co.	Elk Garden.
579	"	No. 6	drift	Davis Coal & Coke Co.	Elk Garden.
580	"	Smith	drift	Smith Coal Co.	Blaine
581	"	Virginia	drift	Stafford Coal Mining Co.	Tunnelton
582	"	Big Vein	drift	Big Vein Coal Co. of W. Va.	Shaw
583	"	Four-foot	drift	Big Vein Coal Co. of W. Va.	Shaw
584	"	Taylor	drift	Taylor Coal Co.	Emoryville
585	"	Hampshire	drift	The Masteller Coal Co.	Keyser
586	"	Oakmont	drift	Abrams Creek Coal & Coke Co.	Oakmont
587	"	+Wabash	drift	Wabash & Potomac Coal Co.	Elkins
588	"	Gleason	drift	Gleason Coal & Coke Co.	Keyser
589	Preston	Austen No. 1	drift	Austen Coal & Coke Co.	Austen
590	"	Austen No. 2	drift	Austen Coal & Coke Co.	Austen
591	"	Newburg	shaft	Hamilton Coal & Coke Co.	Newburg
592	"	Gorman No. 1	drift	Gorman Coal & Coke Co.	Austen
593	"	Gorman No. 2	drift	Gorman Coal & Coke Co.	Austen
594	"	Irona No. 1	drift	Irona Coal Co.	Irona
595	"	Irona No. 2	drift	Irona Coal Co.	Irona
596	"	Irona No. 3	drift	Irona Coal Co.	Irona
597	"	Tunnelton No. 1	drift	Merchants Coal Co.	Tunnelton
598	"	Tunnelton Nos. 2 & 3	2 dfts	Merchants Coal Co.	Tunnelton
599	"	Corinth	drift	Oakland Coal & Coke Co.	Corinth
600	"	Howesville	drift	Kingwood Coal Co.	Howesville
601	"	Dixie	drift	Hite Coal & Coke Co.	Hiorra
602	"	Vulcan	drift	Orr Coal & Coke Co.	Hiorra
603	"	Victoria No. 1	drift	The Manufacturers Coal & Coke Co.	Independence
604	"	Victoria No. 2	slope	The Manufacturers Coal & Coke Co.	Independence
605	"	Shrader	drift	Pennsylvania Consolidated Coal Co.	Grafton
606	"	Atlantic No. 1	drift	Atlantic Coal & Coke Co.	Tunnelton
607	"	Atlantic No. 2	drift	Atlantic Coal & Coke Co.	Tunnelton
608	"	No. 2	drift	West Virginia Coal Co.	Morgantown

*Appointed to succeed Jerry Westlake. December 1st, 1904

+Idle all year.

#Operated by Maryland Smokeless Coal Co. to April 8.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kinds of Ventilation.	Total Inside Employees.	No.
A. C. Finley.....	H. C. Haskins.....	Freeport..	5-0	fan	53	556
Lee J. Sandridge.....	G. B. Myers.....	Up. Free..	6-0	fan	28	557
Charles Cronk	Charles Cronk.....	Up. Free..	6-0	fan	41	558
R. D. Edwards.....	David D. Edwards.....	Pittsburg..	8-0	fan	237	559
W. S. Brydon.....	J. H. Ritter.....	Up. Free..	5-8	fire basket	35	560
James C. Ward.....	Ed. Williams.....	Redstone..	5-6	fan	194	561
James C. Ward.....	Patrick Woods.....	Redstone..	5-6	furnace	562	562
F. A. Coleman.....	.....	Up. Free..	6-10	fan	563	563
W. S. Brydon.....	F. E. Robinson.....	Freeport..	4-6	furnace...	12	564
H. M. Wetzel.....	Frank Sandridge.....	Freeport..	7-0	furnace ..	14	565
W. P. Hurst.....	Wm. Koozer.....	Freeport..	7-2	furnace ..	12	566
J. W. S. Miller.....	W. O. Hayes.....	Freeport..	5-0	furnace ..	567	567
J. W. Miller.....	D. E. Brown.....	Up. Free..	5-6	fan	5	568
James G. Boyd.....	Frank Sharp.....	Mahoning..	4-3	fan	10	569
James G. Boyd.....	Frank Sharp.....	Freeport..	5-0	fan	148	570
John Jose.....	.....	Kittan.....	6-0	fan	4	571
.....	.....	Up. Free..	4-4	.....	572	572
Richard Waddell.....	Richard Waddell.....	Lo. Kittan	7-0	furnace ..	56	573
O. Tibbets.....	Joe Tibbets.....	Lo. Kittan	5-8	fan	7	574
O. Tibbets.....	.....	Lo. Kittan	5-8	natural ..	575	575
O. Tibbets.....	Louis Grant.....	.....	.....	natural ..	26	576
Lee Ott.....	B. S. Coleman.....	Freeport..	3-6	furnace ..	66	577
Lee Ott.....	J. E. Ott.....	Pittsburg..	12-6	natural ..	162	578
Lee Ott.....	F. Wilson.....	Pittsburg..	12-6	fan	146	579
R. A. Smith.....	W. D. Walker.....	Kittan.....	6-0	fan	46	580
F. A. Husted.....	W. J. Herndon.....	Kittan.....	4-0	furnace ..	47	581
C. F. Jordan.....	J. W. Lillen.....	Pittsburg..	12-0	natural ..	35	582
C. F. Jordan.....	J. W. Lillen.....	Elk Lick ..	4-0	natural ..	583	583
Wm. C. Larew.....	Wm. C. Larew.....	Freeport..	4-8	natural ..	10	584
M. Masteller.....	Henry Byer.....	Kittan.....	4-0	fan	59	585
A. P. Brady.....	L. D. Vaughn.....	Up. Free..	4-6	shaft	56	586
A. D. Gillespie.....	.....	Up. Free..	4-6	stack.....	587	587
S. F. Shelly.....	D. T. Williams.....	Up. Free..	4-0	fan	8	588
F. W. Horschler.....	A. R. Murphy.....	Freeport..	5-0	fan	94	589
F. W. Horschler.....	Geo. Cook.....	Freeport..	5-0	fan	114	590
John Humphreys.....	John Humphreys.....	Up. Free..	4-0	fan	53	591
Douglas Gorman.....	John Welsh.....	Freeport..	4-6	furnace...	90	592
Douglas Gorman.....	John Welsh.....	Freeport..	4-6	fan	593	593
Geo. P. King.....	Ray Spencer.....	Up. Free..	4-8	fan	594	594
Geo. P. King.....	Ray Spencer.....	Up. Free..	4-8	furnace ..	147	595
Geo. P. King.....	Ray Spencer.....	Up. Free..	4-8	fire basket	596	596
D. R. Phillips.....	Geo. Cummings, Sr.....	Up. Free..	4-6	furnace ..	47	597
D. R. Phillips.....	W. B. Edwards.....	Up. Free..	4-6	fan	196	598
S. H. Jordan.....	Jessie Burk.....	Up. Free..	4-0	fan & nat.	52	599
V. E. Goecke.....	R. S. La Rue.....	Freeport..	4-8	furnace ..	71	600
R. M. Hite.....	Alf. Fortney.....	Freeport..	4-6	furnace ..	31	601
Robert McGraw.....	U. G. Deahl.....	Up. Free..	4-4	fan	77	602
J. H. Larew.....	Jim Phillips.....	Lo. Kittan	4-9	fan	603	603
J. H. Larew.....	J. H. Larew.....	Lo. Kittan	4-9	fan	20	604
C. L. Fortney.....	C. L. Fortney.....	Kittan.....	5-0	fan	44	605
C. W. Sandridge.....	Thos. Mackey.....	Up. Free..	4-6	fan	109	606
C. W. Sandridge.....	Thos. Mackey.....	Up. Free..	4-6	furnace...	607	607
J. B. Hanford.....	J. E. Hamilton.....	Up. Free..	4-2	furnace...	46	608

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30, 1905.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
609	Randolph...	Coalton	drift	Davis Colliery Co	Elkins
610	"	Harding	drift	Davis Colliery Co	Elkins
611	"	*Grassy Run	drift	Davis Colliery Co	Elkins
612	"	Weaver No. 1	drift	*Davis Coal & Coke Co	Weaver
613	"	Weaver No. 2	drift	*Davis Coal & Coke Co	Weaver
614	"	Weaver No. 3	drift	*Davis Coal & Coke Co	Weaver
615	"	*Leiter No. 1	drift	*Davis Coal & Coke Co	Weaver
616	"	Klondyke	drift	Ritter Coal Co	Mabie
617	Taylor	Sand Lick	drift	Grafton Coal & Coke Co	Grafton
618	"	Flemington	drift	Pittsvein Coal Co	Flemington
619	"	Brydon	drift	Davis-Brydon Coal Co	Grafton
620	"	T. B. Davis	drift	Davis-Brydon Coal Co	Grafton
621	"	No. 41	drift	Davis Coal & Coke Co	Simpson
622	"	Rosemont	drift	Rosemont Coal Co	Tyrconnell
623	Tucker	No. 23	drift	Davis Coal & Coke Co	Thomas
624	"	No. 34	shaft	Davis Coal & Coke Co	Thomas
625	"	No. 25	drift	Davis Coal & Coke Co	Thomas
626	"	No. 35	drift	Davis Coal & Coke Co	Thomas
627	"	No. 36	drift	Davis Coal & Coke Co	Thomas
628	"	No. 37	drift	Davis Coal & Coke Co	Thomas
629	"	*Douglas No. 1	drift	Cumberland Coal Co	Albert
630	"	Douglas No. 3	drift	Cumberland Coal Co	Albert
631	"	Douglas No. 4	drift	Cumberland Coal Co	Albert
632	"	Douglas No. 5	drift	Cumberland Coal Co	Albert
633	"	Beacon No. 1	drift	Beacon Coal & Coke Co	Davis

†Idle all year. *Operated by Maryland Smokeless Coal Co. until April 8, 1905.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintend- dent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ven- tilation.	Total Inside Employees.	No.
A. C. Finley.....	David Stoddard.....	Freeport..	7-6..	fan.....	142	609
A. C. Finley.....	A. C. Davis... ..	Freeport..	7-6..	fan.....	82	610
A. C. Finley.....	James Stewart.....	Freeport..	7-0..	.....	.....	611
Wm. Barrick.....	J. L. Thomas.....	Freeport..	9-3..	fan.....	114	612
Wm. Barrick.....	James Stewart.....	Freeport..	9-3..	fan.....	64	613
Wm. Barrick.....	James Stewart.....	Up. Free..	8-0..	natural ..	15	614
Wm. Barrick.....	.....	Freeport..	5-0..	.....	.....	615
W. H. Green.....	W. H. Green.....	Up. Free..	9-0..	furnace ..	10	616
J. W. Fahey.....	N. B. Whitehair.....	Pittsburg.	7-6..	natural ..	42	617
J. W. Davidson.....	G. R. W. Johnson.....	Pittsburg.	9-0..	fan.....	48	618
W. J. Phillips.....	W. J. Phillips.....	Pittsburg.	7-6..	natural ..	12	619
W. E. Davis	T. A. Fleming.....	Pittsburg.	7-6..	furnace ..	69	620
M. L. Garvey.....	John Pearson.....	Pittsburg.	7-6..	furnace ..	56	621
J. W. Fahey.....	Frank Savage.....	Pittsburg.	8-6..	natural ..	119	622
L. S. McDowell.....	Alex. Close.....	Up. Free..	6-6..	fan.....	186	623
L. S. McDowell.....	Thos. Malley.....	Kittan.....	6-0..	fan.....	119	624
L. S. McDowell.....	Geo. L. Campbell.....	Up. Free..	6-6..	fan.....	124	625
L. S. McDowell.....	L. J. Kilroy.....	Kittan.....	6-6..	fan.....	27	626
L. S. McDowell.....	W. J. Christopher.....	Kittan.....	3-6..	fan.....	121	627
L. S. McDowell.....	W. F. Reeves.....	Kittan.....	6-6..	fan.....	116	628
J. B. Jenkins.....	.....	Kittan.....	6-0..	.....	.....	629
J. B. Jenkins.....	James Christopher.....	Kittan.....	6-0..	.....	.....	630
J. B. Jenkins.....	James Christopher.....	Kittan.....	6-0..	{ fan.....	} 104	631
J. B. Jenkins.....	James Christopher.....	Kittan.....	6-0..	fan.....	51	632
D. G. Porter.....	Frank Bell.....	Kittan.....	8-0..	fan.....	32	633

ACCIDENTS.

**FATAL ACCIDENTS, BY CAUSES, IN WEST VIRGINIA, 1883 TO 1905,
INCLUSIVE.**

CAUSES.	Year ending Dec. 31st				Jan. 1st, 1887 to June 30, 1888.	Year ending June 30th.																	Totals.	Percentage.
	1883	1884 ^a	1885	1886		1889	1890 [†]	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905		
Falls of roof, coal, etc....	17	16	4	27	9	21	22	27	54	49	51	48	47	67	64	61	76	79	96	95	105	1,035	63.31	
Cars,	3	4	2	2	2	2	4	6	8	6	12	8	7	12	13	15	20	23	19	23	28	217	13.27	
Explosions, .....	..	3	39	2	..	2	5	2	5	..	12	1	2	2	2	57	29	7	32	12	39	253	15.47
Other .....	..	..	3	2	4	..	..	1	5	4	8	8	6	6	8	8	5	11	12	10	22	130	7.95
Totals.....	20	23	48	31	13	27	36	36	72	59	83	65	62	87	89	141	130	120	159	140	194	1,635	100.00	

*No report

†No report for 1st mining district.

**FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1883 TO 1892,
INCLUSIVE.**

Inside.

CAUSES.	1883	1884	1885	1886	*1887-88	1889	*1890	1891	1892	Totals.	Percent- age.
Falls of coal, slate and roof ..	17	16	4	27	9	21	22	27	54	143	67.14
Mine cars ..	2	no report.	1	1	..	2	1	2	5	14	6.57
Explosions of gas .....	..	..	3	39	..	..	..	4	1	47	22.07
Explosions of powder, dust and blasts ..	..	..	..	2	..	..	2	1	1	4	1.87
Locomotives ..	..	..	..	2	..	..	..	..	..	5	2.35
Miscellaneous ..	..	..	..	..	..	..	..	1	..	..	..
Totals.....	19	20	44	31	11	24	29	35	213	100.00	

Outside.

CAUSES.	1883	1884	1885	1886	*1887-88	1889	*1890	1891	1892	Totals.	Percent- age.
Cars	1	no report.	3	1	..	..	1	2	1	9	42.86
Locomotives ..	..	..	..	2	..	1	..	..	..	3	9.52
Miscellaneous ..	..	..	..	..	..	..	..	5	..	10	47.62
Totals.....	1	3	4	2	2	3	7	121	100.00		

*The accidents are for the 18 months from January 1st, 1887 to June 30, 1888.

†Accidents reported for 2nd District only.

FATAL ACCIDENTS, INSIDE AND OUTSIDE, 1893 TO 1905, INCLUSIVE.

Inside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	Totals.	Percent- age.
Falls of coal, roof and slate.....	54	49	51	48	47	67	64	81	76	79	96	95	105	892	69.47
Mine cars	5	4	9	4	6	6	7	11	11	13	12	12	18	118	9.19
Explosions of gas.....	..	..	..	..	..	1	..	50	10	..	24	3	1	89	6.93
Explosions of powder, dust & shots	5	..	15	1	2	1	4	6	19	7	8	9	38	115	8.96
Mules.....	..	..	1	..	..	..	..	..	1	..	1	..	1	4	.31
Mine machines.....	1	..	..	..	..	..	..	..	1	..	1	..	1	4	.31
Motors.....	..	..	..	..	..	..	..	1	..	..	..	..	3	4	.31
Locomotives.....	..	..	1	..	2	1	..	2	1	..	1	1	..	9	.70
Miscellaneous.....	2	2	2	5	3	..	4	2	2	11	4	3	9	49	3.82
Totals.....	87	55	79	58	60	76	79	133	121	110	147	123	176	1,284	100.00

Outside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	Totals.	Percent- age.
Cars.....	5	2	3	5	2	9	6	7	9	10	7	11	10	86	73.51
Machinery.....	..	..	..	..	..	1	1	1	..	..	..	1	..	3	2.56
Boiler explosions.....	..	..	..	..	..	..	..	1	..	..	..	..	..	1	.86
Locomotives.....	..	..	1	..	..	..	..	..	..	..	..	..	..	5	4.27
Miscellaneous.....	2	..	..	2	..	1	2	..	..	..	2	4	8	22	18.80
Totals.....	5	4	4	7	2	11	10	8	9	10	12	17	18	117	100.00

TABLE SHOWING THE NUMBER OF PERSONS KILLED INSIDE, PER 1,000 INSIDE EMPLOYEES IN COAL MINES IN THE STATES OF PENNSYLVANIA, ILLINOIS, OHIO AND WEST VIRGINIA FOR THE

Year 1904.

STATES.	Total No. of Inside Employees.	Total No. of Inside Fatal Acci- dents.	No. of lives lost per 1,000 Inside Employees.
Pennsylvania anthracite.....	110,362	496	4.49
Pennsylvania bituminous.....	129,523	512	3.95
Illinois.....	49,361	148	2.99
Ohio.....	41,025	*140	3.41
West Virginia.....	36,316	123	3.38

Year 1905.

West Virginia.....	39,903	176	4.41
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*Includes all fatal accidents, both inside and outside.

TABLE SHOWING THE NUMBER KILLED INSIDE OF THE MINES BY FALLS PER EACH 1,000 PERSONS EMPLOYED INSIDE OF THE MINES IN THE STATES OF OHIO, ILLINOIS, PENNSYLVANIA AND WEST VIRGINIA, FROM 1897 TO 1904, INCLUSIVE.

YEARS.	Ratio Killed by Falls of Coal, Slate and Roof per 1000 Inside Employes.				
	Ohio.	Illinois.	Pennsylvania.		West Virginia.
			Bitumi- nous Mines.	Anthra- cite Mines.	
1897.. .. .	1.07	1.52	1.50	2.13	2.75
1898.. .. .	1.47	1.36	1.92	2.04	3.60
1899.. .. .	1.52	1.54	2.18	2.45	3.26
1900.. .. .	1.52	1.44	1.79	1.86	2.79
1901.. .. .	1.38	1.43	1.95	2.29	2.95
1902.. .. .	1.59	1.42	2.02	1.18	2.90
1903.. .. .	2.13	1.65	1.92	2.05	3.15
1904.. .. .	2.26	1.32	1.83	2.16	2.61
Averages .. .	1.62	1.46	1.89	2.02	3.00
1905.					2.62

TABLE SHOWING THE NATIONALITIES OF PERSONS KILLED, AND CAUSES OF ACCIDENTS AT THE MINES
FOR THE YEARS 1904 AND 1905.

NATIONALITIES.	1904												1905.											
	Causes.												Causes.											
	Inside.						Outside.						Inside.						Outside.					
	Falls of coal, slate and roof.	Mine cars.	Explosions of Gas.	Explosions of powder, dust, dynamite & shots.	Mules.	Miscellaneous.	Total number killed inside.	Cars.	Machinery.	Locomotives.	Miscellaneous.	Total number killed outside.	Falls of coal, slate and roof.	Mine cars.	Explosions of Gas.	Explosions of powder, dust, dynamite and shots.	Mules.	Miscellaneous.	Total number killed inside.	Cars.	Machinery.	Locomotives.	Miscellaneous.	Total number killed outside.
American.....	37	7	1	1	2	48	5	1	1	2	57	47	12	...	21	1	7	88	5	...	...	7	12
Negro.....	20	2	...	...	...	22	5	...	...	...	20	23	5	1	9	...	...	1	38	4	...	...	3
Italian.....	9	...	...	1	1	13	...	...	...	...	13	9	...	...	...	...	...	1	36	2	...	...	2
Hungarian.....	6	...	...	...	...	6	...	...	...	...	6	6	...	...	4	...	...	1	10	1	...	...	1
Polish.....	...	...	1	...	...	4	4	...	...	...	4	4	...	...	3	...	...	...	8	...	...	...	...
English.....	3	...	...	1	...	5	...	...	...	...	6	1	...	...	...	...	...	...	4	...	...	...	...
Slavish.....	3	...	...	...	...	5	5	...	...	...	5	3	1	...	...	...	...	...	4	...	...	...	...
German.....	...	1	...	2	...	3	1	...	...	...	3	2	...	...	1	...	...	...	3	...	...	...	...
Irish.....	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Austrian.....	2	...	...	2	...	2	2	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
Lithuanian.....	...	...	...	...	...	4	...	...	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...
Russian.....	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
Scotch.....	1	...	...	1	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Servian.....	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Welsh.....	5	...	1	1	...	8	...	...	...	...	8	5	...	...	...	...	...	2	7	...	...	...	...
Unknown.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	95	12	3	9	...	4	123	11	1	1	4	140	105	18	1	38	1	13	176	10	...	8	194	

NATIONALITIES OF PERSONS KILLED AND INJURED—1905.

NATIONALITIES.	Fatal.	Non-fatal.	Totals.
American.....	100	119	219
Negro.....	41	41	82
Italian.....	13	21	34
Hungarian.....	11	13	24
Pole.....	8	9	17
English.....	1	2	3
Slavish.....	4	12	16
German.....	3	3	6
Irish.....	.....	3	3
Austrian.....	2	3	5
Lithuanian.....	1	1	2
Scotch.....	.....	2	2
Russian.....	2	.....	2
Welsh.....	1	2	3
Belgian.....	.....	1	1
Unknown.....	7	18	25
Totals.....	194	250	444

AGES OF PERSONS KILLED AND INJURED—1905.

AGES.	Fatal.	Non-fatal.	Totals.
14 years or younger.....	5	5	10
15 ".....	1	5	6
16 ".....	4	6	10
17 ".....	2	4	6
18 ".....	7	9	16
19 ".....	4	6	10
20 ".....	12	12	24
20 " to 25 years including 25.....	38	62	100
25 " " 30 " " 30.....	41	40	81
30 " " 35 " " 35.....	34	28	62
35 " " 40 " " 40.....	20	22	42
40 " " 45 " " 45.....	6	16	22
45 " " 50 " " 50.....	4	8	12
50 " " 55 " " 55.....	10	4	14
55 " " 60 " " 60.....	3	2	5
60 " " 65 " " 65.....	1	2	3
Unknown.....	2	19	21
Totals.....	194	250	444

TABLE EXHIBITING THE CAUSES OF FATAL AND NON-FATAL ACCIDENTS, AND THE NUMBER AND PERCENTAGE BY EACH CAUSE—1905.

CAUSES.	Fatal.	Non-Fatal.	Totals.	Percent-age.
Fall of roof.....	88	76	164	36.94
Fall of coal.....	10	24	34	7.66
Fall of coal and roof.....	7	3	10	2.25
Mine cars.....	21	80	101	22.75
Explosions of Gas.....	1	9	10	2.25
Explosions of powder and dynamite.....	14	14	28	6.30
Explosions of dust.....	24	.....	24	5.40
Premature blasts.....	.....	4	4	.90
Blown-out shots.....	.....	2	2	.45
Excessive use of dynamite.....	.....	2	2	.45
Mine machines.....	1	7	8	1.80
Mine motors or locomotives.....	3	6	9	2.03
Machinery on tippie.....	.....	3	3	.67
Railroad cars.....	5	.....	5	1.12
On incline.....	8	5	13	2.93
In shafts and on cages.....	5	.....	5	1.12
Electric shock.....	3	1	4	.90
Mine Timbers.....	.....	3	3	.67
Animals.....	2	2	4	.90
Coke ovens larry.....	1	.....	1	.23
Conveyors.....	.....	1	1	.23
Clothes caught fire.....	1	.....	1	.23
Flying coal.....	.....	4	4	.90
Fan.....	.....	1	1	.23
Blasting rock.....	.....	1	1	.23
Scaffold broke.....	.....	1	1	.23
Mining pick.....	.....	1	1	.23
Totals.....	194	250	444	100.00

*ACCIDENTS TABULATED ACCORDING TO THE DAYS OF THE WEEK
ON WHICH THEY OCCURRED—1905.*

FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside	20	14	28	23	32	26	33	176
Outside	1	2	5	2	4	.....	4	18
Totals	21	16	33	25	36	26	37	194

NON-FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside	5	35	43	36	36	42	25	222
Outside	1	3	4	6	2	7	5	28
Totals	6	38	47	42	38	49	30	250

SUMMARY, FATAL AND NON-FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside	25	49	71	59	68	68	58	398
Outside	2	5	9	8	6	7	9	46
Totals	27	54	80	67	74	75	67	444

No.	COUNTY.	NAME OF MINE.	Name of Person killed.	Date of		National-ity.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependants.	Insurance and amount.	How Killed.	Inquest.
				Injury.	Death.											
1	Brooke...	Locust Grove...	Andrew Sernis-ki...	3-5, '05	3-6, '05	'05 Slav.	2 yrs.	34	Miner.	M	yes	3	1	\$ 1,000.00	Fall of coal and slate	no
2	Harrison...	Lynch...	John C. Wagner	7-21, '04	7-21, '04	'04 American.	10 yrs.	31	M. Foreman	M	yes	3	4		Mule-kicking(outside)	no
3	"	Gypsy...	Mike Lulitz...	7-30, '04	7-30, '04	'04 Slav.	2 wks.	40	Miner.	M	yes				Fall of slate	no
4	"	Erle...	Geo. W. Fenton	7-30, '04	8-15, '04	'04 American.	9 yrs.	56	Miner.	M	yes		1		Caught between car & rib	"
5	"	Pinnickinnick.	Gazar Toth...	8-5, '04	8-5, '04	'04 Hungarian.	2½ yrs.	28	Miner.	M	yes	1	1		Fall of head coal.	"
6	"	Fall Run.	D. W. Catrill.	8-19, '04	9-12, '04	'04 American.	6 mos.	38	Asst. M. Boss	M	yes	1	1		Fall of soapstone.	"
7	"	Lynch...	Gabriel Strap-face.	8-24, '04	8-24, '04	'04 Italian.	2 yrs.	23	Loader.	S					Fall of stone.	"
8	"	Interstate...	John Mitchell...	10-26, '04	11-23, '04	'04 Lithuanian.	2 yrs.	33	Mach runner	S					Fall of slate.	"
9	"	Neadowbrook.	Frank Hernick...	1-14, '05	1-14, '05	'05 German.	3 yrs.	34	Miner.	M					Fall of slate.	"
10	"	Gypsy...	B. E. Wilson...	2-21, '05	2-21, '05	'05 American.	3 yrs.	32	Miner.	M	yes	1			Fall of coal.	"
11	"	Perry No. 3...	Joseph Palata...	5-2, '05	5-2, '05	'05 Slav.	1 wk.	24	Miner.	S					Fall of top slate.	"
12	"	Ocean...	A. A. Hill...	5-9, '05	5-9, '05	'05 American.	1½ yrs.	23	Mach. helper	M	yes	1			Fall of breast coal.	"
13	"	Phoenix...	Tony Julious...	6-2, '05	6-6, '05	'05 Italian.	4 yrs.	27	Miner.	M					Explosion of gas.	"
14	"	Riverdale...	John Locante...	6-27, '05	6-27, '05	'05 Italian.	3½ yrs	24	Miner.	M	yes	1			Fall of slate.	"
15	Marion...	King...	Pasquale Lavina...	7-6, '04	7-6, '04	'04 Italian.	4 mos.	34	Miner.	M	yes	2	3		Fall of slate.	"
16	"	Middleton...	Dominic Brute...	7-9, '04	7-9, '04	'04 Italian.	1 mo.	30	Slaterman.	S					Fall of slate.	"
17	"	Murray...	Andrew Uncose...	8-25, '04	10-24, '04	'04 Austrian.	1½ yrs.	36	Miner.	M					Fall of slate.	"
18	"	Chatham...	Peter Soloch...	11-4, '04	11-4, '04	'04 Austrian.	3 mos.	38	Miner.	M	yes	1		175.00	Cage in shaft.	"
19	"	W. Fair. Shaft	Theodore A. Anderson...	12-9, '04	12-9, '04	'04 American.	11 yrs.	34	Miner.	M	yes	4	5		Fall of coal.	"
20	"	Montana...	Sanford J. Powell...	2-10, '05	2-10, '05	'05 American.	2 yrs.	38	Miner.	M	no	4	4		Fall of slate.	"
21	"	Gaston...	Salvator Petron...	3-6, '05	3-7, '05	'05 Italian.	2 mos.	28	Laborer.	M	no				Box car loader and railroad car.	"
22	"	Anderson...	James H. McCoy	3-9, '05	3-9, '05	'05 American.	3 wks.	50	Car trimmer	M	yes	1	2		Boiler house and railroad car.	"
23	"	Murray...	Thos. Kiser...	3-22, '05	3-22, '05	'05 American.	3 yrs.	29	Driver	M	yes	1	2		Fall of slate	"
24	"	Pennois...	James Santa...	3-30, '05	3-30, '05	'05 Italian.	2 yrs.	38	Laborer.	M	yes	3	4		Railroad car at tippie	"
25	"	Montana...	John Hawkins...	4-13, '05	4-13, '05	'05 American.	3 mos.	18	Trapper	S					Mine cars.	"
26	"	Anderson...	Charlie Bookie...	5-27, '05	5-27, '05	'05 Pole.	1½ yrs.	32	Miner.	M	yes	2	3		Fall of slate.	"
27	"	Chatham...	Bendato Ciano...	6-21, '05	6-21, '05	'05 Italian.	3 yrs.	40	Miner.	M	yes	6	7	175.00	Cage in shaft.	yes
28	Marshall...	Moundsville...	Chas. Branden...	11-4, '04	11-4, '04	'04 American.	3 yrs.	19	Miner.	S					Fall of slate.	no
29	"	Hitchman...	H. W. Baker...	3-10, '05	3-10, '05	'05 American.	1 yr.	37	Gripman	M	no	4	4		Mine car.	"
30	Kanawha...	Acme...	Newman Douglas...	7-22, '04	7-22, '04	'04 American.	6 yrs.	20	Drill runner	M	yes		1		Electric drill	"

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependants.	Insurance and amount.	How Killed.	Inquest.
			Injury.	Death.											
31 Kanawha	Paint Creek....	John Ealom....	10-24, '04	10-24, '04	English....	4 yrs..	20	Miner.....	S	yes	..	1	\$	Fall of slate.....	no.
32 "	Queen Shoals....	Luther Tawney..	12-2, '04	12-2, '04	American..	5 yrs..	20	Miner.....	M	yes	..	1		Fall of slate.....	..
33 "	Keystone.....	Lewis Gevz....	12-2, '04	12-10, '04	German....	5 yrs..	24	Miner.....	M	yes	..	1		Explosion of powder.	..
34 "	Keyford.....	John Graves....	1-2, '05	1-2, '05	American..	5 yrs..	25	Driver.....	M	yes	1	2		Kicked by mule....	..
35 "	K. & H. No 101	Andrew Hunt...	3-7, '05	3-7, '05	American..	8 yrs..	35	Miner.....	M	yes	1	1		Chain connecting cars broke on incline	yes
36 "	K. & H. No. 101	John McSurley..	3-7, '05	3-7, '05	American..	2 yrs..	13	Trapper....	S	..	..	..		Chain connecting cars broke on incline	..
37 "	K. & H. No. 101	Wm. McSurley..	3-7, '05	3-7, '05	American..	4 yrs..	18	Miner.....	S	..	..	..		Chain connecting cars broke on incline	..
38 "	K. & H. No. 101	Edward McLaughlin....	3-7, '05	3-7, '05	American..	1½ yrs.	17	Loader.....	S	..	..	..		Chain connecting cars broke on incline	..
39 "	Empire.....	Lewis Harris....	3-16, '05	4-20, '05	American..	5 yrs..	31	Mach. helper	S	..	..	..		Fall of coal and slate.	no.
40 "	Holly.....	Thomas Puifer...	3-20, '05	3-20, '05	Negro.....	10 yrs..	31	Mach. helper	S	..	..	..		Fall of coal and slate.	..
41 "	Cabin Creek....	Wm. Allen.....	4-20, '05	4-20, '05	American..	3 yrs..	23	Laborer....	S	..	..	..		Explosion of powder.	yes
42 "	Cabin Creek....	Ira Nichols....	4-20, '05	4-20, '05	American..	3 yrs..	22	Laborer....	S	..	..	..		Explosion of powder.	..
43 "	Cabin Creek....	Burt Green.....	4-20, '05	4-20, '05	American..	15 yrs.	35	Miner.....	M	yes	1	2		Explosion of powder.	..
44 "	Cabin Creek....	Charles Nichols..	4-20, '05	4-20, '05	American..	10 yrs.	30	Miner.....	M	yes	1	2		Explosion of powder.	..
45 "	Cabin Creek....	Oscar Crump....	4-20, '05	4-20, '05	American..	5 yrs..	23	Miner.....	M	yes	1	1		Explosion of powder.	..
46 "	Cabin Creek....	Wm. Jacobs....	4-20, '05	4-27, '05	American..	15 yrs.	40	Miner.....	S	..	..	..		Explosion of powder.	..
47 "	Red Warrior....	Charles W arlinger	5-6, '05	6-6, '05	American..	18 yrs.	33	Loader.....	S	..	..	..		Fall of slate.....	no.
48 "	K. & H. No. 106	Curtis Scott....	6-6, '05	6-6, '05	German....	18 yrs.	30	Loader.....	M	No	1	1		Fall of slate.....	..
49 "	Keystone.....	S. C. Brown....	6-27, '05	6-27, '05	American..	3 yrs..	30	Miner.....	M	yes	1	1		Fall of slate.....	..
50 "	Imperial No. 1.	Edward W. Riley	6-27, '05	6-27, '05	American..	9 days.	31	Miner.....	M	yes	5	6		Fall of slate.....	..
51 Putnam	Oak Forest....	Geo. H. Caldwell	8-18, '04	8-18, '04	American..	30 yrs.	55	Miner.....	M	No	4	1		Fall of slate.....	..
52 "	Plymouth.....	Thomas Plummer	5-15, '05	5-15, '05	American..	7 yrs..	28	Miner.....	M	yes	1	2	50.00	Fall of slate.....	..
53 Fayette	Scarbro No. 1.	Henry Bronsky..	7-2, '04	7-2, '04	American..	12 yrs.	36	Miner.....	S	..	..	..		Fall off cage.....	..
54 "	Klisyth.....	Henry Green....	7-7, '04	7-7, '04	Pole.....	6 yrs..	18	Driver.....	S	..	..	..		Fall of slate.....	..
55 "	Scarbro No. 1.	Peer Sepovitch..	7-20, '04	7-20, '04	Pole.....	6 yrs..	32	Miner.....	S	..	..	..	50.00	Fall of top coal....	..
56 "	Kay Moor No. 1	Roy Linthicum..	7-20, '04	7-21, '04	American..	2 yrs..	33	Miner.....	S	..	..	..		Caught by rope frame on incline.....	..

57	Fayette	Macdonald	Vincenzo Quig- liata	7-23, '04	7-23, '04	Italian	5 yrs.	33	Miner	M	yes	1	Fall of slate	yes
58	"	Collins	Mike Gilsy	7-28, '04	7-30, '04	Hungarian	6 mos.	21	Miner	S	yes	1	Fall of slate	no.
59	"	Kilsyth	Angelo Sambo- rizzo	8-1, '04	8-1, '04	Italian	1 yr.	21	Headman	S	yes	1	Fall of slate	"
60	"	Wingrove	Fred Sowers	8-8, '04	8-8, '04	American	2 mos.	28	Miner	S	yes	1	Fall of slate	"
61	"	Boone	Joe Johnson	8-9, '04	8-9, '04	Negro	5 yrs.	26	Miner	M	yes	1	Runaway car on in- cline	"
62	"	Ballinger No. 1	Harry Hender- son	8-16, '04	8-16, '04	Negro	20 yrs.	48	Miner	M	yes	10	Runaway car on in- cline	"
63	"	Kay Moor No. 1	Samuel Sweet	8-17, '04	8-17, '04	American	6 wks.	60	Laborer	M	yes	1	Runaway car on in- cline	"
64	"	K & H No. 117	Owen Clarke	9-1, '04	9-1, '04	American	6 yrs.	19	Coal hauler	S	yes	1	Runaway car on in- cline	"
65	"	Kilsyth	Beverly Redd	9-7, '04	9-7, '04	Negro	12 yrs.	27	Miner	S	yes	1	Runaway car on in- cline	"
66	"	Eureka No. 2	Stewart Phillips	9-9, '04	9-9, '04	American	3 yrs.	22	Coal hauler	S	yes	1	Runaway car on in- cline	"
67	"	Bee wood No. 1	Thos. Williams	9-20, '04	9-20, '04	Negro	3 yrs.	27	Miner	S	yes	1	Runaway car on in- cline	"
68	"	Kanawda Gas	Booker Hutson	9-21, '04	9-21, '04	American	2 yrs.	16	Coupler	S	yes	1	Runaway car on in- cline	"
69	"	K & H No. 114	Peter Loyd	9-28, '04	9-28, '04	American	3 yrs.	25	Laborer	S	yes	1	Runaway car on in- cline	"
70	"	Red Ash	Wm. Alexander	9-29, '04	9-29, '04	Negro	3 yrs.	22	Coal hauler	S	yes	1	Runaway car on in- cline	"
71	"	Vulcan	Homer Phelps	10-20, '04	10-20, '04	Negro	3 yrs.	22	Coal hauler	S	yes	1	Runaway car on in- cline	"
72	"	Blume	Wm. Michels	11-3, '04	11-3, '04	American	3 wks.	19	Miner	S	yes	1	Runaway car on in- cline	"
73	"	Fire Creek	Wm. Wright	11-9, '04	11-9, '04	American	2% mos.	30	Miner	M	yes	2	Runaway car on in- cline	"
74	"	Star	Wm. Herman	11-18, '04	11-18, '04	Russian	2 yrs.	40	Miner	M	yes	1	Runaway car on in- cline	"
75	"	Edgewater No. 3	Lewis D. Jones	12-5, '04	12-5, '04	Negro	2 yrs.	23	Laborer	S	yes	2	Runaway car on in- cline	"
76	"	Parral	George Johnson	12-7, '04	12-7, '04	Negro	8 yrs.	15	Miner	S	yes	2	Runaway car on in- cline	"
77	"	Harvey	Grant Lewis	12-13, '04	12-13, '04	American	20 yrs.	47	Miner	S	yes	5	Runaway car on in- cline	"
78	"	Edgewater No. 1	John Herline, Jr.	12-22, '04	12-22, '04	American	8 yrs.	30	Driver	S	yes	1	Runaway car on in- cline	"
79	"	Gauley Mou an	Ed. Legg	12-27, '04	12-27, '04	American	10 yrs.	24	Miner	S	yes	1	Runaway car on in- cline	"
80	"	Laurel Creek	Olue C. Nunnally	12-30, '04	12-30, '04	American	2 yrs.	18	Driver	S	yes	1	Runaway car on in- cline	"
81	"	Laura	Wm. M. Carter	12-31, '04	12-31, '04	American	2 yrs.	18	Driver	S	yes	1	Runaway car on in- cline	"
82	"	Collins	Archie Parrish	1-1, '05	1-1, '05	Negro	1% yrs.	23	Miner	S	yes	1	Runaway car on in- cline	"
83	"	Kilsyth	Guiseppi Moc- cellari	1-5, '05	1-5, '05	Italian	3 yrs.	16	Driver	S	yes	1	Runaway car on in- cline	"
84	"	Kay Moor No. 1	Walter Patton	1-7, '05	1-7, '05	Negro	3 yrs.	32	Driver	M	yes	1	Runaway car on in- cline	"
85	"	California	Charles Dark	1-10, '05	1-10, '05	Negro	25 yrs.	37	Miner	S	yes	1	Runaway car on in- cline	"
86	"	Derrydale	Andrew Shanta	1-21, '05	1-22, '05	Hungarian	4 mos.	55	Miner	S	yes	1	Runaway car on in- cline	"
87	"	Kay Moor No. 1	G. L. Comer	2-1, '05	2-1, '05	American	3 yrs.	28	Laborer	M	yes	6	Runaway car on in- cline	"
88	"	Scarburo No. 2	Mat Soudy	3-16, '05	3-16, '05	Negro	3 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
89	"	Collins	Shields Hunter	3-17, '05	3-17, '05	Negro	3 yrs.	28	Laborer	M	yes	6	Runaway car on in- cline	"
90	"	Rush Run	Percy Wood	3-18, '05	3-18, '05	Negro	3 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
91	"	Rush Run	Andrew Weir	3-18, '05	3-18, '05	Negro	3 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
92	"	Rush Run	Clayton Mose- ley	3-18, '05	3-18, '05	Negro	10 yrs.	24	Loader	S	yes	1	Runaway car on in- cline	"
93	"	Rush Run	Wm. Koon	3-18, '05	3-18, '05	American	20 yrs.	44	Miner	S	yes	4	Runaway car on in- cline	"
94	"	Rush Run	Chas. Jones	3-18, '05	3-18, '05	American	2 yrs.	19	Laborer	S	yes	1	Runaway car on in- cline	"
95	"	Rush Run	Hollie Jarrett	3-18, '05	3-18, '05	Negro	2 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
96	"	Rush Run	Clarence Allen	3-18, '05	3-18, '05	Negro	4 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
97	"	Rush Run	Thos. Allen	3-18, '05	3-18, '05	Negro	4 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"
98	"	Red Ash	Joseph Kioski	3-18, '05	3-18, '05	Pole	4 yrs.	22	Miner	S	yes	1	Runaway car on in- cline	"

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of Experience.	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. dependents.	Insurance and amount.	How Killed.	Inquest.
			Injury.	Death.											
99 Fayette.	Red Ash.	Martin Kioski.	3-18, '05	3-18, '05	Pole.	4 yrs.	38	Miner.	S	yes	1	2	yes.	Explosion of dust.	yes
100 "	Red Ash.	Chas. Kruger.	3-18, '05	3-18, '05	Pole.	4 yrs.	34	Miner.	S	yes	1	2	\$	Explosion of dust.	"
101 "	Red Ash.	Steve Norf.	3-18, '05	3-18, '05	Hungarian	4 yrs.	27	Miner.	M	yes	2	3		Explosion of dust.	"
102 "	Red Ash.	Clarence Jackson.	3-18, '05	3-18, '05	Negro	2 yrs.	27	Laborer.	S					Explosion of dust.	"
103 "	Rush Run.	Chas. Gwinn.	3-19, '05	3-19, '05	American.	7 yrs.	22	Miner.	S					Explosion of dust.	"
104 "	Rush Run.	J. P. Hutchinson.	3-19, '05	3-19, '05	American.	3 yrs.	30	Miner.	S				25.00	Explosion of dust.	"
105 "	Rush Run.	E. W. Henson.	3-19, '05	3-19, '05	American.	4 yrs.	35	Trucklayer.	S	yes	1	2	35	Explosion of dust.	"
106 "	Rush Run.	Norman Hutchinson.	3-19, '05	3-19, '05	American.	2 yrs.	18	Laborer.	S				20.00	Explosion of dust.	"
107 "	Rush Run.	G. W. Honkins.	3-19, '05	3-19, '05	American.	15 yrs.	45	Trucklayer.	M	yes	5	2	2	Explosion of dust.	"
108 "	Rush Run.	Thos. Bannister.	3-19, '05	3-19, '05	American.	35 yrs.	53	Fire boss.	M	yes	4	1		Explosion of dust.	"
109 "	Rush Run.	Jas. Gwinn.	3-19, '05	3-19, '05	American.	10 yrs.	33	Miner.	S					Explosion of dust.	"
110 "	Rush Run.	J. E. Phillips.	3-19, '05	3-19, '05	American.	12 yrs.	38	Outside boss at Echo.	S					Explosion of dust.	"
111 "	Rush Run.	Henderson Mosley.	3-19, '05	3-19, '05	American.	3 yrs.	23	Miner.	S				1,000.00	Explosion of dust.	"
112 "	Rush Run.	D. C. Hutchinson.	3-19, '05	3-19, '05	American.	10 yrs.	39	Ma'ine boss.	M	yes	4	5		Explosion of dust.	"
113 "	Rush Run.	Brack Jarrell.	3-19, '05	3-19, '05	American.	2 yrs.	21	Laborer.	S					Explosion of dust.	"
114 "	Buffalo.	James Caldwell.	4-4, '05	4-4, '05	American.	13 yrs.	40	Miner.	M	yes	5	1		Fall of slate.	no.
115 "	Lookout.	Amos Skaggs.	4-8, '05	4-17, '05	American.	5 yrs.	55	Miner.	M	yes	5		65	Fall of slate.	"
116 "	Kay Moor No. 2.	J. W. Rice.	4-25, '05	4-25, '05	American.	30 yrs.	54	Miner.	M	yes	10	11		Fall of slate.	"
117 "	Slater.	John Fetty.	4-29, '05	4-29, '05	American.	5 yrs.	25	Motorman.	S				50.00	Motor.	"
118 "	Boomer No. 2.	John Donahue.	5-11, '05	5-11, '05	American.	3 wks.	60	Miner.	M	yes	6	7		Fall of slate.	"
119 "	Collins.	Claud Brown.	5-11, '05	5-11, '05	Negro.	7 yrs.	30	Miner.	S					Fall of coal and sand rock.	"
120 "	Brown.	Joe Barnes.	5-18, '05	5-18, '05	Negro.	3 yrs.	23	Miner.	M	yes	2	3		Fall of coal.	"
121 "	Concho.	Edgar Morris.	5-20, '05	5-20, '05	American.	7 yrs.	23	Laborer.	M	yes	1	2		Fall of slate.	"
122 "	Ballinger No. 1.	Simon Smith.	5-24, '05	5-24, '05	Negro.	4 yrs.	21	Miner.	S				21	Fall of slate.	"
123 "	Ansted.	Robert L. Burns.	6-6, '05	6-6, '05	American.	2 yrs.	36	Miner.	M	yes	2	3		Caught between mine car and rib.	"
124 Raleigh.	Raleigh No. 3.	John Girdanz.	8-18, '04	8-18, '04	Russian.		29	Miner.	S					Fall of slate.	"
125 "	Mabscott.	Wm. Bowman.	12-16, '04	12-16, '04	American.	4 yrs.	27	Trucklayer.	M	yes		1	30.00	Fall of slate.	"
126 "	Raleigh No. 2.	W. G. Nunley.	3-28, '05	3-28, '05	American.	6 yrs.	35	Miner.	S					Fall of slate.	"
127 "	Mabscott.	John Clark.	5-29, '05	5-29, '05	Negro.	10 yrs.	30	Miner.	S					Fall of slate.	"
128 McDowell.	Powhatan.	Hampton Dean.	7-12, '04	7-12, '04	Negro.	3 wks.	22	Slaterman.	S				50.00	Fall of slate.	"
129 "	Tug River.	Charles Fain.	9-2, '01	9-2, '01	American.	10 yrs.	20	Miner.	S					Fall of slate.	"
130 "	Tug River.	Pleasant Fain.	9-2, '04	9-2, '04	American.	35 yrs.	52	Miner.	S	yes	Y			Fall of slate.	"
131 "	Empire.	John Olsen.	9-19, '04	9-19, '04	American.	3 yrs.	44	Laborer.	S					Box car.	"

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

No.	COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		National-ity.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependants.	Insurance and amount.	How Killed.	Inquest.
				Injury.	Death.											
168	Mercer	Crane Creek No. 2.	Thos. E. Reynolds.	10-21, '04	10-21, '04	American.	10 days	23	Laborer	S					Fall of slate	no
169	"	Pinnacle.	John Koisburg.	12-7, '04	12-7, '04	Pole.	2 yrs	33	Laborer	M	yes	1			Fall of slate	"
170	"	Booth-Bowen.	Alex Miller.	1-2, '05	1-2, '05	American.	1 wk	20	Laborer	M					Fall of top coal.	"
171	"	Buckeye.	Ed. Dunsford.	2-16, '05	2-16, '05	American.	3 yrs	25	Laborer	M					Fall of slate	"
172	Mingo	Red Jacket.	Albert McDon-	10-6, '04	10-6, '04	Negro.	3 yrs	54	Miner	M	yes	3	4	100.00	Fall of slate	"
173	"	Thacker No. 1.	J. F. Hendricks	2-16, '05	2-16, '05	American.	1 yr	27	Miner	S					Fall of slate	"
174	"	Thacker No. 1.	E. B. Massie	4-7, '05	4-7, '05	American.	1 yr	28	Miner	M	yes	1	2		Fall of slate.	"
175	"	Rutherford	Garfield Town-	4-19, '05	4-19, '05	American.	1 yr	20	Driver	S					Fall of slate	"
176	"	Red Jacket.	James Buckner.	5-8, '05	5-8, '05	Negro.	4 yrs	28	Miner	S					50.00 Fall of slate	"
177	"	War Eagle.	Harry Childers.	6-6, '05	6-6, '05	American.	22 yrs	32	Miner	M	yes	1		25.00 Mine car	Fall of sandstone	yes
178	"	War Eagle.	Henry Swan.	6-6, '05	6-6, '05	Negro.	10 yrs	34	Miner	M					Fall of sandstone.	"
179	Barbour	Century Shaft.	Alexander Vet-	12-21, '04	12-21, '04	Austrian.	1 yr	39	Miner	M	yes	2	3		Fall of slate.	"
180	"	Berryburg.	Charlie Toth.	5-30, '05	5-30, '05	Hungarian	3 yrs	42	Miner	M	yes	3	4		Fall of slate	"
181	Grant	Henry No. 22	Sle Karp.	1-28, '05	1-28, '05	Pole.	22 yrs	31	Miner	M	yes	4	5	100.00	Fall of slate	no
182	"	Henry No. 22	George Blythe.	4-20, '05	4-20, '05	Slav.	5 yrs	29	Driver	M	yes	1		200.00	Fall of slate	"
183	Mineral	Hampshire.	Lafayette M c-	2-3, '05	2-3, '05	American.	5 yrs	55	Miner	M	yes	3	1	200.00	Mine cars.	"
184	"	Elk Gar'en No 6	Robie James P. Dixon	5-5, '05	5-6, '05	American.	15 yrs	45	Miner	M	yes	Y			Fall of rock.	"
185	"	Gleason.	David Morgan.	5-10, '05	5-11, '05	Welsh.	20 yrs	42	Miner	S					Fall of bone coal and slate.	"
186	Preston	Austen No. 2	Green Pratt	7-6, '04	7-6, '04	Negro.	16 mos.	32	Miner	M	yes	1	2		Fall of roof.	"
187	"	Gorman No. 2	Peter Rossi.	11-22, '04	11-22, '04	Italian.	1 yr	20	Driver	S				100.00	Fall of slate.	"
188	"	Atlantic.	James S. Pyles.	1-12, '05	1-15, '05	American.	20 days	20	Miner	S					Caught between motor and rib.	"
189	"	Irona.	Stephen Ringer.	4-29, '05	4-29, '05	American.	2 yrs	48	Laborer	M	yes	1	2		Railroad car at tippie	"
190	"	Irona.	Harry Leach.	6-20, '05	6-20, '05	American.	1 yr	13	Driver	S					Mine car	"
191	Tucker	No. 34	Joe McClosky.	9-7, '04	9-7, '04	American.	7 yrs	27	Miner	M	yes	1	1		Electrocuted	"
192	"	No. 23	Tony Shukis.	10-15, '04	10-15, '04	"	"	34	Miner	M					Fall of slate	"
193	"	No. 34.	J. H. Elestick.	10-21, '04	10-22, '04	"	"	50	Pumper	M	yes	1	1		Caught by cage at shaft bottom.	"
194	"	Beacon No. 1	Albert Balcock	3-18, '05	3-18, '05	American.	3 mos.	16	Running hoisting engine.	S				423.00	Hand caught in cable	"

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.

No.	COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of accident.	Injuries sustained.
1	Brooke....	Beech Bottom No. 1.....	Lawrence Labash	6- 9, '05	Hungarian	6 wks.	37	Miner.....	Fall of slate.....	Bruised and hurt internally.
2	Harrison..	Ehlen.....	Jim Ross.....	7-30, '04	Italian.....	6 mos.	29	Miner.....	Fall of slate.....	Ankle broken, back strained and head cut.
3	"	Pooz.....	John Queen.....	8-23, '04	Negro.....	2 mos.	32	Loader.....	Fall of slate.....	Leg broken.
4	"	Viropa.....	Joe Bucar.....	8-23, '04	Austrian...	1 day...	22	Machine shoveler	Fall of slate.....	Leg broken, head cut and bruised.
5	"	O'Neil No. 2.....	Louis Bogges.....	9- 6, '04	Negro.....	1 yr.....	16	Driver.....	Mine cars.....	Leg broken and cut.
6	"	O'Neil No. 1.....	Mike Waters.....	10-11, '04	American...	3 yrs...	20	Cutter.....	Fall of slate.....	Arm broken.
7	"	Fall Run.....	Mike Podolak.....	10-18, '04	Pole.....	7 mos...	27	Miner.....	Fall of slate.....	Leg broken.
8	"	Gypsy.....	Dominick Mino.....	10-29, '04	Italian.....	1 yr.....	24	Driver.....	Mine car.....	Leg broken and crushed below knee.
9	"	Viropa.....	W. F. Whitehair.....	11-10, '04	American...	2 mos...	32	Shoveler.....	Fall of slate.....	Collar bone broken.
10	"	Solon.....	Tony Garapala.....	11-18, '04	Italian.....	4 mos...	27	Miner.....	Fall of head coal.....	Leg broken, shoulder and hip bruised, face cut.
11	"	Two Lick.....	John McGovern.....	11-24, '04	Irish.....	1 mo....	58	Loader.....	Fall of coal.....	Three ribs broken and contusion of chest.
12	"	Viropa.....	Alfred Cooper.....	11-25, '04	American...	1 yr....	39	Driver.....	Mine car.....	Foot mashed and broken and fingers mashed.
13	"	Waldo No. 2.....	Grant Goldsmith.....	11-27, '04	American...	22 yrs...	41	Miner.....	Stepped on piece of loose coal.....	Leg broken and ankle dislocated.
14	"	Pooz.....	John Turaba.....	12- 3, '04	Slav.....	3 mos...	28	Miner.....	Post knocked down.....	Collar bone broken.
15	"	Girard No. 1.....	John Spadifore.....	12- 9, '04	Italian.....	2 yrs...	20	Driver.....	Motor outside.....	Leg mashed above ankle.
16	"	Gypsy.....	Paul Barton.....	12-21, '04	Slav.....	1 yr....	32	Miner.....	Fall of coal.....	Two ribs broken, hand and face cut.
17	"	Two Lick.....	Edward Kirkendall.....	12-23, '04	American...	11 yrs...	22	Driver.....	Mine cars.....	Leg broken.
18	"	Perry.....	Andrew Casey.....	12-30, '04	Negro.....	25 das...	25	Miner.....	Caught between car & rib.....	Two ribs and bones of hand broken, face and hand cut.
19	"	Pinnickinnick	Philip Granthenet.....	1-23, '05	Italian.....	14 das...	38	Laborer.....	Caught between wire rope & bull wheel on tippie.....	Four toes and ends of two fingers mashed off.
20	"	Ehlen.....	Blain Beverly.....	6- 8, '05	American...	3 yrs...	19	Driver.....	Rail collapsed, allowing him to fall off tippie.....	Arm broken.
21	"	Coal. Station.	R. H. Wilson.....	6-15, '05	Scotch....	9 mos...	...	Mine foreman.	Struck by handle of apparatus wheel.....	Arm broken and elbow dislocated.
22	"	Pitcairn.....	James May.....	6-22, '05	American...	1 yr....	15	Trapper.....	Caught b'tween door & car.....	Laceration of abdomen.
23	"	Columbia.....	Frank Yurecheck.....	6-23, '05	Slav.....	2 yrs...	27	Miner.....	Fall of slate.....	Arm broken & badly lacerated.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of accident.	Injuries Sustained.
24 Harrison	Interstate	Wm. Socorege	6-26, '05	Scotch	2 yrs.	25	Laborer	Fall of coal.	Thigh broken.
25 "	Waldo No. 1.	A. L. Williams	6-29, '05	American	8 yrs.	33	Miner	Fall of coal.	Knee lacerated and shoulder sprained.
26 Marion	Federal No. 1.	Mike Kheek	8-10, '04	Slav	18 mos.	30	Miner	Mine car.	Squeezed.
27 "	Anderson	Jas. Halliwell	8-11, '04	Italian	3 yrs.	30	Miner	Fall of coal.	Collar bone broken.
28 "	Middleton	Sam Sopolovic	8-18, '04	Austrian	3 yrs.	42	Miner	Fall of slate.	Collar bone broken in two places, shoulder crushed.
29 "	Middleton	Gust Evikie	8-22, '04	German	4 mos.	27	Miner	Caught between car & rib	Collar bone broken and back scratched.
30 "	Gaston	C. B. Smith	8-25, '04	American	10 yrs.	30	Laborer	Mine cars	Foot mashed, amputated above ankle joint.
31 "	New England.	Jesse Barthlow	9-16, '04	American	2 yrs.	16	Coupler	Mine cars (outside)	Foot fractured, mashed and lacerated.
32 "	Montana	George Ash	10-21, '04	American	3 yrs.	16	Trap & driver	Fall of slate.	Both legs broken, shoulder dislocated and finger cut off.
33 "	Montana	Joe Notic	11-3, '04	Hungarian	1 yr.	28	Miner	Fall of slate.	Leg broken.
34 "	New England.	William Deems	12-5, '04	American	18 mos.	35	Mach. helper.	Caught between mine machine and rib.	Double fracture of leg.
35 "	Mon'gah No. 3	James Degarlow	12-24, '04	Italian	2 yrs.	31	Miner	Fall of slate.	Mashed across back.
36 "	Mon'gah No. 3	John Metz	12-26, '04	American	2 yrs.	34	Miner	Fall of slate.	Leg broken, face cut.
37 "	Mon'gah No. 3	Joseph Clayton	12-26, '04	American	2 mos.	33	Laborer	Fall of slate.	Leg broken.
38 "	Middleton	Lubwig Hauber	1-3, '05	German	4 wks	24	Miner	Mine cars.	Three ribs broken, chest and shoulder bruised, left lung injured.
39 "	New England	Elza Wilson	1-9, '05	American	3 mos.	18	Driver	Mine cars.	Hand cut and lacerated.
40 "	Penns.	William Kann	1-14, '05	American	6 mos.	22	Miner	Fall of coal.	Right collar bone fractured, left dislocated, rib fractured and chest crushed.
41 "	New England	A. L. Price	1-16, '05	American	5 yrs.	37	Mach. helper.	Mine machine.	Leg amputated below knee.
42 "	Gaston	L. L. Work	1-17, '05	American	1 mo.	23	Mach. helper.	Mine machine.	Leg, foot and ankle badly cut.
43 "	Mon'gah No. 6	Salva Morra	1-23, '05	Italian	2 yrs.	32	Miner	Mine car.	Arm broken and lacerated.
44 "	Mon'gah No. 3	Dan Domino	1-30, '05	Italian	3 yrs.	39	Miner	Blownout shot.	Face and hands burned.
45 "	Gaston	Frank Volkmiro	2-3, '05	Slav	3 mos.	25	Driver	Mine car.	Collar bone fractured, chest mashed.
46 "	Hutchinson	Mike Gulis	2-11, '05	Slav	6 mos.	40	Miner	Fall of coal.	Scalp wound and badly bruised back.
47 "	Middleton	C. M. Craig	2-11, '05	American	2 mos.	28	Miner	Mine cars.	Leg fractured.
48 "	New England.	Geo. A. Baker	3-5, '05	Hungarian	2 mos.	22	shoveler	Mine cars.	Hip bone fractured.
49 "	Stafford	Henry Clayton	3-27, '05	American	8 mos.	21	Driver	Caught between car & rib	Col bone, thigh & 1 rib fractured

50	Marion	Montana	Tom Sarnich	4-10, '05	Austrian	1 yr... 34	Miner	Caught between car and rib	Arm broken above wrist. Leg and ankle fractured, scalp wound.
51	"	Middleton	John Stein	4-29, '05	Pole	1 yr... 43	Miner	Fall of slate.	Both bones of leg fractured, back scratched.
52	"	Middleton	John Alum	5-31, '05	Italian	2 yrs... 20	Miner	Fall of slate.	Foot lacerated.
53	"	Chatham No. 1	Mike Dennis	6-2, '05	Italian	6 yrs... 23	Miner	Fall of coal.	Skull fractured.
54	"	Stafford	James Davis	6-22, '05	English	30 yrs. 45	Shooter	Struck by blasted coal.	Hip crushed.
55	"	Anderson	John Verris	6-24, '05	Pole	5 yrs. 42	Miner	Fall of slate.	Hip dislocated.
56	Mon'galia	Richard	E. D. Mellinger	1-10, '05	American	5 yrs. 25	Mach. runner	Mine cars.	Shoulder bruised, scalp cut.
57	"	Richard	Rocco Soine	4-8, '05	Italian	8 yrs. 25	Miner	Mine cars.	
58	Marshall	Benwood	Reuben Crosby	7-27, '04		no. of			
59	"	Benwood	Brice Dunlap	10-26, '04		2 yrs. 28	Driver	Mine cars.	Foot badly bruised.
60	"	Hitchman	C. C. McCann	1-3, '05	American	2 yrs. 25	Driver	Machine struck loose against leg.	Both bones of leg broken.
61	"	Hitchman	Sam Webb	1-9, '05	Welsh	40	Laborer	Mine cars.	Arm broken.
62	"	Glen Easton	Peter Knuza	3-17, '05	Slav	5 yrs. 23	Miner	Ignition of gas.	Collar bone broken.
63	"	Glen Easton	Frank Lakazer	3-17, '05	Slav	5 yrs. 37	Miner	Ignition of gas.	Face and hands burned.
64	"	Benwood	Joseph Soanburg	4-24, '05		8 yrs. 26	Miner	Fall of stone.	Face and hands burned.
65	"	Benwood	Rube Tschappatt	5-8, '05		5 yrs. 22	Coal dumper	Mine cars (outside).	Shoulders and legs bruised.
66	Ohio	Elm Grove	George Amos	5-12, '05	American	10 yrs. 42	Miner	Fall of slate.	Ankle joint injured.
67	"	Manchester	John Donahue	5-23, '05	Irish	always 34	Mine foreman	Fall of slate.	Back bruised and strained.
68	"	Manchester	E. W. Moore	5-30, '05		44	Framer	Fall of slate.	Head cut and ankle bruised.
69	Clay	Dorfee	F. J. Thomas	7-21, '04	American	6 yrs. 23	Driver	Mine cars.	Toes on left foot mashed.
70	"	W. Va. No. 1	Marshall Connors	7-9, '04	Negro	5 yrs. 25	Miner	Mine cars.	Ankle bruised.
71	Kanawha	Black Band	Albert Mullens	7-22, '04	American	23 yrs. 37	Miner	Fall of slate.	Ankle mashed and cut.
72	"	United Gas	Henry Roberts	8-8, '04	American	2 yrs. 30	Loader	Fall of coal.	Dislocation of thigh.
73	"	Scranton	Amos Pauley	9-23, '04	English	6 yrs. 21	Miner	Mine car.	Both bones of leg broken.
74	"	Butler	Ernest Wells	9-29, '04	American	2 1/2 yrs. 19	Motor runner	Motor	Leg crushed between knee and ankle.
75	"	Belmont	A. Kirby	10-5, '04	American	several	35	Mine foreman.	Feet mashed.
76	"	Detroit No. 2	John Androski	11-18, '04	Hungarian	several		Caught between car & rib	Back and side squeezed, one rib cracked.
77	"	Banner	Damus Bruny	11-26, '04	Italian	3 yrs. 24	Miner	Falling coal from shot.	Leg broken and badly mangled
78	"	Keystone	Wm. Schmid	12-2, '04		3 mos. 24	Miner	Fall of coal.	Thigh fractured and scalp bruised.
79	"	Keystone	John Sirthel	12-2, '04				Explosion of powder	Burns.
80	"	Keystone	John Franken	12-2, '04				Explosion of powder	Burns.
81	"	Keystone	Alex Pethols	12-2, '04				Explosion of powder	Burns.
82	"	Keystone	Herman Wail	12-2, '04				Explosion of powder	Burns.
83	"	Keystone	Eugene Bauer	12-2, '04				Explosion of powder	Burns.
84	"	Keystone	John Branham	12-2, '04				Explosion of powder	Burns.
85	"	Morris Creek	J. W. Elkins	12-2, '04	American	17 yrs.	37	Miner	Hands burned.
86	"	Butler	Wm. Coiner	12-13, '04	American	16 1/2 yrs	28	Coal hauler	Mine cars.
87	"	Rayford	James F. Kay	1-3, '05	American	20	Assist. Boss	Motor trip wrecked.	Leg broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

No.	COUNTY.	NAME OF MINE.	Name of person injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
88	Kanawha	Kayford	Burt Green	1-3, '05	American	10 yrs.	30	Mach. runner	Mine machine	Leg lacerated.
89	"	Emphie	Joseph Schwartz	1-14, '05	Hungarian	2 days	35	Miner	Mine machine	Leg lacerated.
90	"	Kellys Creek	Wm. Fitzgerald	1-27, '05	Negro	10 mos.	40	Mach. runner	Fall of slate	Leg broken in three places.
91	"	Detroit No. 1	Joe Gasper	1-31, '05	Pole	30 days	34	Miner	Premature explosion	Face and arms burned.
92	"	Climax	John Horvat	2-2, '05	Hungarian	30 days	60	Tracklayer	Mine cars	One rib broken.
93	"	Keystone	Lewis Steyer	2-8, '05	German	15 yrs.	36	Miner	Fall of slate	Leg broken.
94	"	K. & H. No. 101	Wm. Martin	3-7, '05	American	4 years	18	Mine foreman	Chain connecting cars to cable on incline broke	Badly bruised & scalp wound.
95	"	K. & H. No. 101	James Sheets	3-7, '05	American	7 years	21	Machine man	Chain connecting cars to cable on incline broke	Head cut & bruised, one knee sprained.
96	"	K. & H. No. 101	Hubert Hannigan	3-7, '05	American	19 yrs.	35	Miner	Chain connecting cars to cable on incline broke	Leg injured, two bones in ankle broken.
97	"	K. & H. No. 101	Charles Hastings	3-7, '05	American	Some time	25	Miner	Mine cars	Arm hurt, ankle sprained, head & face cut & bruised.
98	"	Belmont	C. B. Auxier	3-29, '05	American	Some time	23	Miner	Fall of coal	Spine injured.
99	"	Coalburg	Nicholas Hill	4-27, '05	American	Some time	37	Coal loader	Fall of slate	Wrist broken.
100	"	Coalburg	J. B. Stone	5-9, '05	American	13½ yrs	32	Coal loader	Fall of slate	Arm broken and mashed.
101	"	K. & H. No. 106	John Slate	5-16, '05	American	22½ yrs	30	Driver	Mine car	Hips and bowels mashed.
102	"	Coalburg	Henry Belcher	7-6, '04	American	25 yrs	19	Mine boss	Fall of coal	Hips and back hurt.
103	"	K. & H. No. 106	John Phillips	7-12, '04	American	6 mos.	25	Miner	Mine car	Skull fractured.
104	Fayette	Eureka No. 2	John Hale	7-15, '04	American	8 mos.	30	Miner	Fall of slate	Leg broken.
105	"	Marting	Clarence Turner	8-5, '04	Negro	1 day	30	Miner	Fall of roof	Hip dislocated.
106	"	Alaska	Frank Adams	8-5, '04	Negro	1 day	30	Miner	Fall of slate	Knee dislocated.
107	"	Collins	Elbert Mashburn	8-16, '04	Negro	1 day	30	Miner	Explosion of powder	Back mashed, partial paralysis.
108	"	Harvey	Joe Montgomery	8-16, '04	Negro	1 day	30	Miner	Explosion of powder	Hands, arms and face burned.
109	"	Harvey	J. M. Remions	8-29, '04	American	14 mos.	23	Mach. runner	Mine car	Arm broken.
110	"	Remd No. 5	W. H. Flint	9-14, '04	American	6 mos.	23	Coal loader	Went back to shot too soon	Skull fractured.
111	"	Blume	W. H. Flint	9-20, '04	American	6 mos.	23	Coal loader	Fall of slate	Head bruised.
112	"	K. & H. No. 111	Walter Whitely	9-21, '04	American	6 mos.	23	Coal loader	Mine cars	Head and face bruised.
113	"	K. & H. No. 117	R. E. Koffer	9-21, '04	American	6 mos.	23	Coal loader	Mine cars	Leg broken.
114	"	K. & H. No. 117	R. E. Koffer	9-21, '04	American	6 mos.	23	Coal loader	Mine cars	Leg broken.
115	"	Remd No. 4	R. E. Carter	9-21, '04	American	6 mos.	23	Coal loader	Mine cars	Leg broken.

116	Fayette.	Economy.	Flora Gerain.	9-22, '04	Belgian.	18 yrs.	29	Miner	Fall of coal and slate.	Shoulders and back bruised.
117	"	K. & H. No. 112	Charles Brown	10-12, '04	American.	1 yr.	50	Tippleman	Mine car (outside)	Head cut and body bruised.
118	"	K. & H. No. 112	Henry Wilcox.	10-12, '04	American.	3 yrs.			Mine car (outside)	Head cut, and slight internal injuries.
119	"	Collins	Sterling Craig.	10-25, '04	American.	6 mos.	18	Trip rider	Caught between car & rib	Thigh broken.
120	"	Hemlock Hol-low	Silas Johnson.	11-4, '04	Negro.	sev. yrs.	21	Miner	Premature dynamite explosion.	
121	"	Collins	Wm. Holland.	11-12, '04	Negro.	2 yrs.	30	Miner	Fall of slate.	Left hand blown off, lose one and probably both eyes.
122	"	K. & H. No. 117	John Daugherty.	11-18, '04	American.	5 mos.	22	Water bailer	Caught between water box and roof.	Leg fractured, back sprained.
123	"	Greenwood	L. W. Shiny.	11-23, '04	American.		50	Carpenter	Mine car—outside	Collar bone fractured and injured through hips.
124	"	Macdonald.	Mike McKoskey.	11-27, '04	Pole.			Timberman	Fall of slate.	Rollled.
125	"	Reed No. 1.	J. H. Dempsey.	11-30, '04	American.	4 yrs.	22	Moorman	Motor	Internal.
126	"	Gamco No. 5.	Thomas Perry.	12-7, '04	American.	10 yrs.	28	Driver	Mine car	Loss of right arm.
127	"	Scarbro No. 3.	Richard Keese.	12-14, '04	American.	3 mos.	31	Miner	Small feeder of gas.	Arm broken between wrist & elbow.
128	"	Turkey Knob	Thos. Summerson.	12-21, '04	American.	15 yrs.	42	Trip rider	Mine cars (outside)	Face slightly burned.
129	"	Kilsyth.	R. W. Whit.	1-4, '05	American.			Laborer	Fall of slate.	Collar bone broken both sides.
130	"	Ephraim Cr'ek	Fitzhugh Odell	1-11, '05	American.	1 mo.	17		Mine cars	Wrist fractured, knees, hip, back and scalp cut.
131	"	Scarbro No. 2	Robert Jones	3-16, '05	American.	8 yrs.	33	Tracklayer	Gas explosion.	Hip mashed.
132	"	Scarbro No. 2	Oat Jones	3-16, '05	American.	1 yr.	10	Trapper	Gas explosion.	Face slightly burned.
133	"	Scarbro No. 2	Leo McGrath.	3-16, '05	American.	5 yrs.	18	Pumpman	Gas explosion.	Face slightly burned.
134	"	Scarbro No. 2	Chas. Kessinger.	3-16, '05	American.	2 yrs.	20	Laborer	Gas explosion.	Face and hands slightly burned
135	"	No. 1 (C. I. S. Co.)	Modiste De Porter	3-22, '05	American.	5 yrs.	35	Motor runner	Motor	Face slightly burned.
136	"	Boomer No. 2.	W. H. Kline.	3-30, '05	American.	20 yrs.	40	Mach. helper	Fall of coal	Foot bruised & ankle strained.
137	"	Collins	Mike Blanyer	4-4, '05	Hungarian	4 mos.	23	Slate man	Fall of slate	Back bruised.
138	"	Boomer No. 2	Lewis Clark.	4-7, '05	Negro.				Fall of rock	Leg broken.
139	"	Boomer No. 2	Nich Nurd.	4-10, '05	Pole	1 yr.	20	Loader	Fall of slate.	Leg broken.
140	"	Thurmond No. 1	James McGee.	4-14, '05	American.	8 yrs.	25	Miner	Fall of slate.	Leg broken.
141	"	Blume.	Richard O. Davenport.	4-18, '05	American.	21 yrs.	45	Miner	Mine car.	Leg broken.
142	"	Kanawha Gas	Joseph R. Cox.	5-5, '05	American.	2 yrs.	49	Car trimmer	Runaway car on incline.	Leg, arm, and three ribs broken
143	"	Carlisle	Judson Carter.	5-9, '05	Negro.	2 yrs.	22	Driver	Mine car.	Knee dislocated and bruised.
144	"	Blume.	Charles R. Dorsett	5-20, '05	American.	25 yrs.	55	Miner	Premature explosion	Skull crushed and foot injured
145	"	Collins	Rufus Lewis.	6-5, '05	Negro.	3 yrs.	30	Miner	Explosion of powder	Hands and arms burned.
146	"	Collins	W. J. Napper.	6-5, '05	Negro.	3 yrs.	30	Miner	Explosion of powder	Hands and arms burned.
147	"	Collins	James Randolph.	6-12, '05	Negro.	sev. yrs.	30	Miner	Fall of slate.	Thigh fractured.
148	"	Collins	Mike Robshot.	6-14, '05	Hungarian	sev. yrs.	40	Slateman	Fall of slate.	Leg broken.
149	"	K. & H. No. 115	Henry Sterrett.	6-22, '05	American.	1 yr.	36	Driver	Mine car	Leg broken.
150	"	Hemlock Hol-low	Henry Merchant.	6-29, '05	Negro.		26	Miner	Mine car.	Arm broken.
151	"	K. & H. No. 115	Frank Stuart.	6-29, '05	American.	6 mos.	16	Car coupler	Mine car.	Foot bone mashed and fractured.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
152 Raleigh	Stonewall	Adolphus Penick	7-5, '04	American	2 years	40	Miner	Fall of coal	Leg broken.
153	Beckley	Antonio Sparacino	11-17, '04	Italian	18 mos.	36	Miner	Fall of slate.	2 ribs broken, back squeezed.
154	Beckley	Charles Cox	3-14, '05	American	4 years	21	Miner	Fall of slate.	Back and sides bruised.
155	Wright	S. M. Morton	5-4, '05	American	2 years	22	Driver	Mine car	Thigh broken.
156	Wright	Luther Carper	5-4, '05	American	1 mos.	15	Helper	Fall of slate.	Hip bone mashed, bowels injured.
157 McDowell	Bottom Creek	Bruno Riggio	7-11, '04	Italian	2 years	Miner	Miner	Gas.	Face and hands burned.
158	Turkey Gap	Peter Shafron	7-20, '04	Pole	2 years	45	Repairer	Fall of slate.	Leg broken.
159	Turkey Gap	Thos. Hicks	7-22, '04	Negro	2 years	23	Brakeman	Mine car (outside).	Both feet cut.
160	Big Sandy	Frank Bowman	8-6, '04	American	2 years	14	Trapper	Mine car	Thigh broken, head cut and bruised.
161	Greenbrier	Mike Hayida	8-10, '04	Hungarian	1 year	13	Trapper	Mine car	Both legs broken.
162	Algoma	Samuel Clark	8-18, '04	Negro	5 years	44	Miner	Fall of slate.	Side bruised and head cut.
163	Pulaski	James M. Shank	8-19, '04	American	20 yrs.	43	Mine boss	Mine car (outside).	Two toes broken.
164	McDowell	W. Fulp	10-2, '04	American	3 yrs.	35	Stone mason	Blasting rock (outside)	Skull fractured, brain injured.
165	McDowell	F. W. Carter	10-4, '04	American	8 years	24	Miner	Fall of slate.	Ankle and elbow fractured, head cut.
166	Crozer No. 1	William Meade	10-29, '04	American	6 years	24	Driver	Mine cars	Thigh cut.
167	Algoma	Wm. Perkins	11-10, '04	Negro	3 years	18	Spragger	Fall of slate.	Leg fractured.
168	Tidewater	Wm. Lethco	11-19, '04	Negro	4 years		Laborer	Ignition of fuse and dynamite.	Face, hands, arms and back burned.
169	Algoma	Sam Dews	11-28, '04	Negro	2 years	23	Miner	Fall of slate.	Leg fractured.
170	Turkey Gap	Mich. Lutchoe	11-30, '04	Hungarian	4 years	20	Miner	Jaw fractured in two places.	Jaw fractured in two places.
171	Pulaski	James Lee	12-3, '04	Negro	2 years	25	Miner	Fall of slate	Leg broken.
172	Pulaski	W. H. Keeshing	12-2, '04	American	2 years	25	Timberman	Thigh fractured	Thigh fractured.
173	Maher	J. B. Craft	12-7, '04	Irish	5 years	24	Miner	Fall of slate.	Collar bone broken, chest and back bruised.
174	McDowell	Geo. Austin	12-19, '04	Negro	3 years	25	Laborer	Timber fell on him on tippie.	Concussion of brain, nose broken.
175	Keystone	Tim Davis	12-19, '04	American	10 mos.	18	Slataman	Mule kicked him	Jaw broken.
176	Pulaski	Chas. H. Tyler	1-13, '05	American	3 years	33	Electrician	Cutting live wire.	Face bruised.
177	Crozer No. 1	Pat Walker	1-17, '05	Negro	12 yrs.	37	Miner	Fall of coal and slate.	Leg broken, mashed through chest.
178	Bottom Creek	W. J. Trail	1-21, '05	American	35	Miner	Miner	Fall of coal and slate	Leg broken in two places.
179	Bottom Creek	Frank Carter	1-30, '05	Negro	30	Miner	Miner	Powder explosion	Face, arms and body badly burned.
180	Empire	J. H. Philpott	2-6, '05	Negro	9 mos.	27	Laborer	Fall of coal	Thigh fractured.

181	McDowell.	Empire	Tom Philpott	2-6, '05	Negro.....	6 mos.....	24	Laborer.....	Fall of coal	Pelvis fractured.
182	"	Keystone	Joseph Coffe.	2-8, '05	Italian	3 mos.....	24	Miner.....	Fall of slate	Two ribs broken, foot mashed.
183	"	Crozer No. 1..	Claud Harris.....	2-18, '05	American	3 mos.....	28	Driver.....	Mine cars.....	Foot mashed.
184	"	Keystone	John Harris.....	2-23, '05	American	10 yrs. 33	33	Miner.....	Powder explosion	Hands and face burned.
185	"	Crozer No. 1..	John Roberts.....	2-23, '05	Slav. ..	12	33	Sprager	Mine car.....	Finger cut off and another one mashed.
186	"	Keystone	Joseph Carmia.....	3-3, '05	Italian	4 mos.....	30	Laborer	Fall of slate.....	Leg broken.
187	"	Pulaski	R. P. Owens.....	3-6, '05	American	3 mos.....	18	Brakeman...	Mine car.....	Both thighs fractured, collar bone dislocated.
188	"	Keystone	Chas Burk	3-19, '05	American	6 mos.....	26	Laborer	Fall of slate.....	Ankle sprained and hip hurt..
189	"	Crozer No. 2..	Boyd Songer.....	4-14, '05	American	5 yrs.....	20	Driver.....	Mine car.....	Leg broken.
190	"	Pulaski	Monroe Dalton	4-14, '05	American	3 yrs.....	30	Miner.....	Mine car.....	Bladder ruptured.
191	"	Pulaski	W M Ball	5-13, '05	American	6 mos.....	25	Carpenter ..	Scaffold broken	Back injured.
192	"	Pulaski	Robt. M. Sissom	5-17, '05	American	4 mos.....	32	Laborer	Caught between car and rib.....	
193	"	Pulaski No. 2.	John Holmes.....	6-7, '05	Negro.....	1 mo.....	21	Miner.....	Fall of coal.....	Skull lacerated, & concussion.
194	"	Keystone No.2	John Hall	6-17, '05	American	5 yrs.....	25	Slate Boss...	Fall of slate	Sternum and 3 ribs fractured.
195	"	Crozer	Kostanley R i n c i cant.	6-17, '05	American	6 yrs.....	25	Miner.....	Fall of slate.....	collar bone dislocated.
196	Mercer	Mill Creek	J. W. Clemmons	6-24, '04	Pole.....	18 yrs.....	38	Miner.....	Fall of slate.....	Arm broken.
197	"	Coaldale	G. T. M. Burnett.....	7-1, '04	"	14 yrs.....	27	Miner.....	Fall of coal.....	Breast & back hurt, head out.
198	"	Caswell	John Bolden.....	7-7, '04	Negro.....	1 yr.....	17	Coal loader..	Fall of coal.....	Head and shoulder bruised.
199	"	Mill Creek	C. C. Bell	7-23, '04	"	10 yrs. 31	31	Engineer	Engine ran into car load of rails (outside)	Ankle fractured.
200	"	Mill Creek	Sam Millner	8-2, '04	Negro.....	1 mo.....	19	Miner.....	Caught between car and rib.....	Leg and foot mashed.
201	"	Buckeye	Geo. Davis	8-3, '04	American	2 mos.....	16	Miner.....	Mine cars.....	Ankles bruised and lacerated.
202	"	Crane Creek ..	John Barlow	9-24, '04	American		24	Miner.....	Fall of slate.....	Ear cut and head lacerated.
203	"	Booth-Bowen.	Lockwood Patter- son.....	9-27, '04	Negro.....	2 yrs.....	20	Driver.....	Mine car.....	Arm broken, necessitating amputation.
204	"	Coaldale	Walter T. Guinn	11-2, '04	"	6 yrs.....	19	Miner.....	Fell of slate.....	Collar bone broken, head and hips bruised.
205	"	Coaldale	Romon Holdorf	11-3, '04	Hungarian	7 mos.....	26	Miner.....	Fall of slate.....	Leg crushed.
206	"	Pinnacle	Joseph Retsky	11-8, '04	Pole.....	6 wks.....	27	Miner.....	Fall of slate.....	Leg and arm bruised.
207	"	Pinnacle	Henderson Shep- pard.....	11-30, '04	American	6 mos.....	19	Driver.....	Mine car.....	Leg lacerated, back bruised.
208	"	Pinnacle	Walter F. Crouch.....	12-28, '04	American	2 yrs.....	17	Slate picker..	Fell into conveyor.....	Leg and both ankles fractured.
209	"	Caswell	John Bolden.....	12-28, '04	Negro.....	2 yrs.....	17	Loc.brakeman	Leaning out of cab win- dow.....	hips bruised.
210	"	Caswell	Wm. White.....	1-3, '05	"	10 yrs.....		Loading coal.	Mine cps.....	Breast bone fractured.
211	"	Caswell	Lloyd Moore.....	1-3, '05	Negro.....	8 yrs.....	23	Driver.....	Mine cars.....	Leg and arm fractured.
212	"	Buckeye	Ernest Brown.....	2-15, '05	Negro.....	4 mos.....	20	Miner.....	Fall of slate.....	Arm and shoulder fractured.
213	"	Buckeye	D. L. Brown.....	2-16, '05	American	6 wks.....	20	Miner.....	Fall of slate.....	Leg lacerated.
214	"	Mill Creek	Luther Willis	4-17, '05	Negro.....	4 yrs.....	15	Miner.....	Mine cars.....	Chest and abdomen mashed.
215	"	Pinnacle	Benj. Southern.....	6-19, '05	Negro.....	6 mos.....	22	Miner.....	Fall of slate.....	Thigh broken.
216	Mingo.	Pearl	L. J. Fuller	10-14, '04	American	2 yrs.....	35	Miner.....	Fall of coal.....	Mashed across stomach.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1905.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident	Nationality.	Length of experience.	Occupation.	Nature of Accident.	Injuries Sustained.
No.					Ave.			
217	Mingo...	Dennis Lowery	11-28, '04	Negro....	10 yrs.. 25	Miner.....	Fall of slate.....	Leg broken.
218	"	Crit Hinkle	12-18, '04	American..	1 year.. 18	Track helper..	Fall of slate.....	Mashed through chest.
219	"	Wm. A. Staple	1-13, '05	Negro....	8 years.. 26	Driver.....	Mine machine.....	Arm dislocated at elbow.
220	"	Jake McCoy	1-27, '05	American..	5 years.. 25	Driver.....	Mine car.....	Arm broken.
221	"	E. J. Dawson	1-28, '05	American..	3 mos.. 52	Miner.....	Mine car (outside)..	Both bones of leg fractured.
222	"	Geo. Woods	1-28, '05	American..	3 yrs.. 15	Laborer.....	Fall of slate.....	Ankle and back bruised.
223	"	Chas. T. Rader	1-31, '05	American..	3 years.. 15	Driver.....	Mine cars.....	Collar bone fractured, mashed through chest.
224	"	James Paterson	2-20, '05	Negro....	3 years.. 22	Driver.....	Mine cars.....	Mashed through chest and abdomen.
225	"	Wm. E. Funk	3-3, '05	American..	21 yrs.. 44	Mine foreman..	Mine cars (outside)..	Hand mashed.
226	"	C. A. Lambert	5-2, '05	American..	1 year.. 23	Slateman.....	Mine cars.....	Mashed through chest, cut behind ear.
227	"	Roland Smith	5-3, '05	American..	2 years.. 18	Driver.....	Mine machine.....	Foot bruised and mashed.
228	"	Allen Haskins	6-20, '05	American..	3 years.. 24	Miner.....	Fall of slate.....	Shoulder bruised, 3 ribs broken puncturing lung.
229	Barbour	Berryburg	2-24, '05	Hungarian	11 yrs.. 40	Miner.....	Gas ignition.....	Slight burn.
230	"	Berryburg	5-3, '05	Italian...	6 years.. 26	Miner.....	Excessive use of dynamite.....	Face and hands burned.
231	"	Berryburg	5-3, '05	Italian...	4 years.. 21	Miner.....	Excessive use of dynamite.....	Face, hands and back burned.
232	"	Berryburg	5-30, '05	Hungarian	3 years.. 41	Miner.....	Fall of slate.....	Ligaments and bone broken in ankle, squeezed.
233	Mineral...	Glesson.....	5-10, '05	Welsh....	33 yrs.. 44	Miner.....	Fall of slate.....	Ankle sprained and back bruised.
234	Preston...	Auston No. 2	11-24, '04	Italian...	1 year.. 24	Miner.....	Fall of slate.....	Leg broken.
235	"	Gorman No. 2	12-21, '04	Negro....	1 week..	Miner.....	Fall of slate.....	Both legs broken and back injured.
236	"	Shrader.....	4-1, '05	American..	2 years.. 28	Weightman...	Mine cars (outside)..	Foot mashed.
237	"	Atlantic.....	4-20, '05	American..	30 yrs.. 63	Miner.....	Fall of slate.....	Collar bone and side bruised.
238	"	A. M. Roby	6-21, '05	American..	1 year.. 16	Miner.....	Fall of coal.....	Leg crushed.
239	Randolph.	Weaver No. 1	9-27, '04	American..	1 year.. 16	Laborer.....	Caught between car and rib.....	Two fingers severely lacerated.
240	"	Weaver No. 1	10-4, '04	American..	6 years.. 47	Miner.....	Fall of coal.....	Foot bruised and cut.
241	"	Weaver No. 1	1-12, '05	American..	8 years.. 46	Miner.....	Fall of coal and slate....	Side bruised.

242	Randolph.	Weaver No. 1.	Pimple Patch.....	1-14, '05	Italian.....	2 yrs..	24	Laborer.....	Hand caught in fan.....	One inch of thumb cut off.
243	"	Weaver No. 2	Walter P. Brady..	5-9, '05	American.	7 yrs..	25	Miner.....	Mining pick.....	Foot hurt.
244	Taylor.....	New York	Wm. Jagalis.....	2-17, '05	Lithuanian	20 yrs.	50	Miner.....	Mine cars (outside).....	Compound fracture of leg.
245	"	New York	Ottis Utterback..	4-15, '05	American.	1 mos..	13	Trapper.....	Mine cars.....	Side squeezed and cut.
246	"	Rosemont.....	Geo. Links.....	5-16, '05	Slav.....	5 yrs..	38	Driver.....	Fall of slate.....	Leg broken.
247	Tucker.....	Beacon No. 1.	G. C. Twigg.....	10-11, '04	American.	3 yrs..	33	Scraper.....	Fall of slate.....	Ankle fractured.
248	"	Beacon No. 1.	Nick Yenaden.....	10-31, '04	Slav.....	3 yrs..	30	Miner.....	Premature explosion of dynamite shot.....	Laceration of both fore arms.
249	"	Beacon No. 1.	Shiridan E. Ours..	2-20, '05	American.	18 mos.	23	Driver.....	Mine cars.....	Ankle mashed.
250	"	Beacon No. 1.	Arasmus Tashill...	5-15, '05	Salv.....	10 yrs.	33	Timberman...	Fall of slate.....	Back and leg hurt.

FATAL ACCIDENTS

For the Year Ending June 30th, 1905.

Grapevine Shaft Explosion.

An explosion occurred within the Grapevine Shaft, at Wilcoe, McDowell County, on February 26th, 1905, in which 7 men were killed.

Details of this disaster may be had from the special report made by the Chief Mine Inspector, on May 27th, 1905, copies of which were printed in pamphlet form.

Accident at Kanawha & Hocking Coal & Coke Co.'s Mine No. 101.

On March 7th, 1905, at 4:20 o'clock P. M., while a trip of three loaded cars, on which 13 mine employes were riding, was descending the long and steep incline at the Kanawha & Hocking Coal & Coke Company's Mine No. 101 at Shrewsbury, Kanawha County, and before the trip had reached the half-way point on the incline, the chain attached to the socket of the rope broke and permitted the three loaded cars to run wild to the bottom of the incline, where they destroyed a part of the tippie structure and wrecked the cars. Nine of the employes succeeded in getting off the cars with a few scratches and bruises, but the other four remained on the cars and rode to the bottom of the incline where they each met instant death.

The killed were:

John McSurley	aged	13
William McSurley	"	17
Andrew Hunt	"	35
Edward McLaughlin	"	17

On the two following days the Coroner of Kanawha County, Mr. F. L. Beardsley, the District Mine Inspector, Mr. E. A. Henry, and the Chief Mine Inspector conducted an inquest and made full inquiry into the cause of the accident.

From the evidence secured from the several witnesses it was found that the ropes, draw bars and hitchings were practically new and of sufficient dimension and material to have a good factor of safety for the strains to which they were subjected.

It was shown that notices had been posted forbidding persons to ride on the cars on the incline, and the father of two of the boys killed stated that he had cautioned his boys about the danger incident to riding on the incline.

The coroner's jury gave the following verdict:

STATE OF WEST VIRGINIA,
Kanawha County, to-wit:

An inquisition taken at Kanawha & Hocking Co.'s Mine 101 at Shrewsbury in said County of Kanawha, on the 8th and 9th days of March, 1905, before F. L. Beardsley, coroner of said County of Kanawha, upon the view of the bodies of John McSurley, Will McSurley, Andrew Hunt and Edward McLaughlin, there lying dead.

The jurors sworn to inquire when, how and by what means the said four men came to their death, upon their oath do say: that said John McSurley, Will McSurley, Andrew Hunt and Edward McLaughlin came to their deaths at the incline of Kanawha & Hocking Mine 101, at Shrewsbury in Kanawha County, West Virginia, on the 7th day of March, 1905, about 4:20 P. M. of that day; that said men were riding down said incline of said mine, in company with nine other employes of said Kanawha & Hocking Company on three mine coal cars loaded with coal, and that the chain which connected the rear car with the wire rope or cable broke and said three cars, thus detached, ran down the incline of said mine and killed the four men aforesaid. And the jury further finds from the evidence that the breaking of said chain was partly caused by the additional weight of the thirteen men riding down said incline on said loaded cars, and that said men had been warned against said riding on said incline by notices duly posted by said company on the tippie and drum house thereof, and that said men so killed and so riding on said cars were guilty of contributory negligence, and that said company, in permitting said men to ride up and down incline, notwithstanding the posting of said notices, was also guilty of negligence, but that said negligence of said company was not sufficient to make said company liable for damages for killing said four men.

In testimony whereof, the said coroner and jurors hereto set their hands on this 9th day of March, 1905.

(Signed) F. L. BEARDSLEY, *Coroner.*

J. W. KNIGHT,

J. J. NEYLAN,

R. F. WATSON,

J. W. WAID,

GEO. W. MURRY,

R. G. WATSON,

Jurors.

Rush Run-Red Ash Mine Explosion.

On March 18-19, 1905, explosions occurred in the Rush Run and Red Ash Mines, in Fayette County, in which explosions 24 lives were lost.

Details of this disaster may be obtained from the special report made by the Chief Mine Inspector under date of May 27, 1905, copies of which have been printed in pamphlet form.

Comments upon this disaster are made in the report of the District Mine Inspector for the 3rd District, found elsewhere in this report.

Kayford Mine Explosion.

The Cabin Creek Mine at Kayford, Kanawha County, belonging to the Cabin Creek Mining Company, exploded on April 20th, 1905, at 5:20 o'clock P. M., and caused the loss of the lives of six men, two by being badly burned and four by suffocation, in addition to burning two other persons, one of whom was the mine boss, who was on the outside of the mine and about 40 feet from the mouth of the mine at the time of the explosion.

The Kayford No. 1 Mine is a drift into the No. 2 gas coal and at the time of this disaster the main heading had advanced about 1865 feet from the drift mouth.

At the time of the explosion there were eight men inside of the mine,—five of these men were near the face of the main entries where they were doing contract mining in the main entry and its air course, two right hand entries and two left hand entries which had been turned off but a short distance from the face of the main entries and were driven in not over 150 feet from the main entry.

Two other men were on the main entry going to the outside and were within 100 to 200 feet of the drift mouth, and another, a driver, was on the air course in charge of a mule and inside of the mine about 450 feet.

The two men on the main entry near the outside escaped, one receiving painful burns and the other only slight burns as he felt the rush of air and threw himself prostrate on the floor of the mine.

The other six men were lost, the driver on the air course and one miner near the face of the main entry being the only two burned, the other four being suffocated.

From the evidence taken and facts learned by an examination of the mine it was conclusive that the explosion was caused by powder and coal dust.

The men working in the faces of the entries named above had been taking full kegs of powder into the mine and on the day of the disaster had taken in a full keg at noon and they had another keg partly full within the mine.

A number of holes were found in the different entries, some of which had been charged and tamped and in one entry was found an electric drill placed in position for drilling the face of an air course which had been undercut by a chain machine.

It appears that Wm. Allen was engaged, in the last but one crosscut, in filling cartridges with black blasting powder and upon an examination it was found that two kegs had exploded in this crosscut. These two kegs had holes made into them by means of a miner's pick, and near by, in the same crosscut, were found 52 empty powder cans, each of which had a similar square opening made by a pick.

The conclusion of those who examined this part of the mine was that Allen had accidentally ignited the powder either by striking it with a pick or by dropping fire into it from his open lamp. Allen was severely burned, especially on his lower limbs, and was nude except having on shoes.

The other four miners were working in the cross entries beyond the crosscut in which Allen was and the flame of the explosion did not enter the parts of the mine where they were.

The result of the powder exploding caused the dust within the mine to become inflamed and extended to the outside of the mine, going against the fresh air current, and in its expansion blew out all the wooden brattices between the main headings.

The flame on its way to the outside badly burned Oscar Crump from

his head to his waist and killed him and the mule he had in charge. Crump was blown into a room about 40 feet, but the mule lived long enough to walk about 300 feet over to and up the middle main entry.

The five men at the advance workings had made an effort to get out of the mine as they were all found on the main entry about 100 to 250 feet from the crosscut where the kegs of powder had exploded, and with the exception of Allen had been overcome with the after gases of the explosion.

The mine had been well ventilated and the fan was stopped only 10 minutes by reason of the explosion.

Charred coal dust was in evidence at a number of places along the main heading and in the crosscut where Allen was making cartridges one rib of the coal was charred and blistered.

On the following day, April 21st, the Chief Mine Inspector, and District Inspectors, Henry and Pinkney, made a careful examination of the mine and finally came to the conclusion contained in the following notice, which was issued for the benefit of the men employed within this mine:

NOTICE.

Kayford, W. Va., April 21, 1905.

We have this day made an examination of the inside workings of the Cabin Creek Mine No. 1, belonging to the Cabin Creek Mining Company, at Kayford, Kanawha County, West Virginia, and find that the cause of the explosion which occurred on the 20th of April, 1905, in which the lives of five men were lost, to have been the explosion of two kegs of powder, caused by improper handling or by making an opening into a keg by the use of a miner's pick, which explosion of powder caused the dust of the mine to be inflamed.

Upon a close inspection we were unable to detect the presence of any explosive gas within the mine.

When the dust in the mine has been made and kept damp by proper sprinkling we consider it safe to again be operated, but consider it dangerous, and know it to be a violation of law, to take into the mine powder in the original keg of 24 pounds, and recommend that powder be taken into the mine in cans of a capacity not to exceed five (5) pounds.

(Signed) J. W. PAUL, *Chief Mine Inspector of W. Va.*

E. A. HENRY, *District Mine Inspector, 2nd District.*

EDWARD PINKNEY, *District Mine Inspector, 3rd District.*

An inquisition was held at Kayford by Mr. F. L. Beardsley, coroner of Kanawha County, on the 21st and 22nd of April, which resulted in the following verdict:

STATE OF WEST VIRGINIA,

Kanawha County, to-wit:

An inquisition taken at the store room of the Cabin Creek Mining Company's store, at Kayford, in said County of Kanawha, on the 21st and 22nd days of April, 1905, before F. L. Beardsley, coroner of said County of Kanawha, upon the view of the bodies of W. M. Allen, Bert Green, Charles Nichols, Ira Nichols and Oscar Crump, there lying dead.

The jury sworn to inquire when, how and by what means the said men came to their deaths, upon their oaths do say: That they came to their deaths on the evening of the 20th day of April, 1905, while in Mine No. 1, Entry No. 2, of Cabin Creek Mining Company's mine, at Kayford, in said County of Kanawha, as the result of the explosion of two cans containing powder, which explosion was caused by the careless handling of said powder cans by some of the dead men, which careless handling was against and contrary to printed rule No. 17, of the said company, which was duly posted. But whether one or more than one of said dead men were guilty of said careless handling the jury is unable, from the evidence, to determine.

It appears from the evidence that said rule No. 17 is often violated by the miners, and it is our opinion that the mining company should use the most stringent measures to enforce this rule, by discharge of the offending miners, or otherwise.

In testimony whereof, the undersigned coroner and his jury have hereto set their hands this 22nd day of April, 1905.

F. L. BEARDSLEY, *Coroner.*

W. P. EDWARDS,

C. C. ADAMS,

S. F. ARMSTRONG,

J. S. WILLS,

J. W. NUCKOLLS,

J. HUNTER EAST,

Jury.

The frequency of mine explosions attending accidental explosions of powder in mines where conditions have been unchanged for years leads to the belief that the quality of the powder may be largely at fault. The presence of the very fine particles of dust made by machine mining is the medium by which the explosion may be carried to many parts of a mine.

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30th, 1905.

Brooke County.

March 5, 1905, died March 6, 1905. Andrew Serniski, Locust Grove Mine, was killed by a fall of coal and slate while undercutting a butt shot which had been shattered previously by a shot located near it.

Harrison County.

July 21, 1904. John C. Wagner, Lynch Mine, was helping blacksmith shoe a vicious mule in a pair of stocks; mule kicked scantling loose from end of stocks, which struck Wagner above the left temple, crushing his skull. He died the same day.

July 30, 1904. Mike Lulitz, Gypsy Mine, had loaded his car and was waiting for the driver to take it out when the slate began to fall on the left side of the room. He began backing out from the face to get away and fell and was caught by the falling slate. The place was well timbered, and roof apparently in good condition.

July 30, 1904; died Aug. 15, 1904. George W. Fenton, Erie Mine, was going out of mine when he met a driver with a trip of loads. He stepped aside and when he did so he stepped on the wrong side of the track and was caught between car and rib.

Aug. 5, 1904. Gazar Toth, Pinnickinnick Mine, was loading a mine car when he was caught by a fall of head coal that he had undermined but not shot down. Head coal was loose and being mined and open at one end, the weight caused it to fall from roof. He should have picked or shot the coal down before loading the car.

Aug. 19, 1904; died Sept. 12, 1904. D. W. Cattrill was assistant mine foreman at the Fall Run Mine, and was making his rounds. He went into a room where two men were working and found a piece of loose draw slate which seemed dangerous. He instructed the men to take the slate down before doing any mining, and started to go out of the room, but instead of walking around this loose slate he went directly under it and had only taken a few steps when it fell upon him, breaking his back and right leg, from which injuries he died at the Miners' Hospital, Fairmont, Sept. 12th.

Aug. 24, 1904. Gabriel Strapface, Lynch Mine, was assisting to put car of slate on track. A small piece of slate fell and he jumped forward near the car when a large mass of stone fell and caught him. If he had stepped backwards instead of forwards the accident would not have happened.

Oct. 26, 1904; died Nov. 23, 1904. John Mitchell, Interstate Mine, was operating puncher machine, cutting a crosscut. He had made one cut and was about to finish the last one when a piece of slate fell, striking him on the back. He said the place looked safe, but as a precaution he should have sounded it. He died at the Miners' Hospital, Fairmont.

Jan. 14, 1905. Frank Hernick, Meadowbrook Mine, was instructed by mine foreman to make place safe for other men to work in, and to set props before shooting. He failed to do this, fired shot and went in before smoke settled and was caught by a fall of draw slate.

Feb. 21, 1905. B. R. Wilson, Gypsy Mine, was killed by a fall of head coal. Until the time the coal fell it was considered perfectly safe.

May 2, 1905. Joseph Palata, Perry No. 3 Mine, had fired a shot and went back immediately and commenced loading a car. He did not wait a sufficient length of time for the smoke to clear out of this working place. In making this shot the timber within 10 feet of the face was knocked down by the force of the shot, leaving a large piece of overhead slate and coal without any support. He took no notice of this but went to work and had only been working a few minutes when the slate fell.

May 9, 1905. A. A. Hill, Ocean Mine, was employed as helper on machine. They had made two cuts and were working on the third when the coal which had been undercut fell. In making this undercut they had cut through a very open slip in the coal. The working place was well timbered and in a safe condition.

June 2, 1905; died June 6, 1905. Tony Julious, Phoenix Mine, had been working on the 1st right heading when the mine was closed down indefinitely for repairs. Owing to the mine's being idle the fan had not been

running for several days and orders were that no one was to enter the mine until the fan was started. This man had his tools in the mine and without consulting anyone went in after them. This 1st right heading was generating some gas which he fired at the last crosscut. He was so badly burned that he died several days later at the Miners' Hospital.

June 27, 1905. John Locante, Riverdale Mine, had taken out about 5 feet of the cross cut during the day, baring a piece of slate, and must have been standing under it and working with a pick around it when the slate broke off the roof, falling on him. He wanted to finish loading a car and put off making his place safe.

Marion County.

July 6, 1904. Pasquale Lavinia, King Mine, was killed by a fall of slate, caused by neglecting to timber his place properly after being instructed to do so by the mine boss.

July 9, 1904. Dominic Brute, Middleton Mine, was taking down some loose draw slate when it began to crack. The man working with him stepped out quickly and told Brute to do so, but he did not and was caught by a fall of slate.

Aug. 25, 1904; died Oct. 24, 1904. Andrew Uncose, Murray Mine, was passing through a room when some loose slate fell and struck him on the back. This man had gone into this part of the mine without authority and should not have been there.

Nov. 11, 1904. Peter Soloch, Chatham Shaft Mine, was going out of the mine by way of the cage. The miners who were with him got on to the cage and he signaled the engineer to hoist them up. He then got on the cage when someone said there was not room for him, so he jumped off and when the cage got about 2 feet from the bottom, going up, someone called to him to jump on as there was room. He jumped onto the cage, but before he could straighten himself up he was caught between the timber at the bottom of the shaft and the cage.

Dec. 9, 1904. Theodore Anderson, West Fairmont Shaft, saw that by mining back to a powder crack he would be able to get the coal down without shooting, and while attempting to do so the coal fell, killing him instantly.

Feb. 10, 1905. Sanford J. Powell, Montana Mine, had fired a shot, and from all indications he must have been sounding the roof when a piece of slate fell on him.

March 6, 1905; died March 7, 1905. Salvator Petron, Gaston Mine, was braking on empty gondola which was being dropped in on slack track under the tippie. He stood in such a way as to be caught by an upright of the tippie and was crushed between box car loader and railroad car.

March 9, 1905. James H. McCoy, Anderson Mine, was in the act of stepping from boiler house door onto a moving car when he missed his foothold, falling between car and boiler house, a space of eight inches, and rolled for about 30 feet.

March 22, 1905. Thos. Kisner, Murray Mine, was hauling coal and went in where a pillar was being drawn for a car. He hitched his mule to the front of the car and while waiting for the car to be finished he

went in behind where they were working and was caught by a fall of slate. Slate had fallen to the height of 15 feet and he knew more was liable to fall at any time.

March 30, 1905. James Santa, Pennois Mine, was dropping a loaded car down from the tippie, jumped off car and ran a few feet in front of it to pull a block off the track. He fell and all four wheels of car passed over him, killing him instantly.

April 13, 1905. John Hawkins, Montana Mine, was employed as a trapper. He had given his door a push and it had only gone partly open. He flagged motor trip ahead. When the trip was nearly to the door the man who was riding on the front end of the trip called to him that the door was not open all the way but to let it go. But instead he caught hold of the door frame with his left hand and swung out along the door to try to open it the balance of the way when the corner of the front car struck the back of his head, crushing skull.

May 27, 1905. Charlie Bookie, Anderson Mine, and the man working with him were instructed by the mine boss not to take any more coal from the stump they had been working and showed them where to begin cross-cutting the day before the accident. They disobeyed instructions and began taking more coal from the stump. They were pushing out a car when the place began to work heavily. Bookie was next to the pillar and a piece of slate fell on him, driving a pick he had in his hand through the jugular vein.

June 21, 1905. Bendatto Ciano, Chatham Shaft Mine, was killed by being caught between cage and cribbing of shaft. It is supposed he attempted to jump on cage as it was being hoisted.

Marshall County.

Nov. 4, 1904. Chas. Branden, Moundsville Shaft Mine, was killed by a fall of slate.

March 10, 1905. H. W. Baker, Hitchman Mine, was gripping car on cable at bottom of slope. He went to step aside to let car pass and in some manner his heel caught, throwing him down with his leg across rail in front of car.

Kanawha County.

July 22, 1904. Newman Douglas, Acme Mine, had his clothing caught in feed bar of drill and was thrown around feed bar and skull crushed against rib.

Oct. 24, 1904. John Ealom, Paint Creek Mine, was caught and killed by a fall of slate.

Dec. 2, 1904. Luther Tawney, Queen Shoals Mine, was killed by a fall of slate which he and his brother were endeavoring to take down from over the roadway. They had been cautioned to keep out from under it.

Dec. 2, 1904; died Dec. 10, 1904. Lewis Gevtz, Keystone Mine, was carrying into the mine a can of powder. Gevtz and several other men were riding in a car on a trip being hauled by an electric motor, when in some manner the powder was exploded. Gevtz was fatally burned but the rest just slightly.

Jan. 2, 1905. John Graves, Kayford Mine, was kicked by mule which he was driving and died immediately.

March 7, 1905. Andrew Hunt, John McSurley, Wm. McSurley, and Edward McLaughlin, K. & H. Mine No. 101, were riding down incline when chain connecting cars to cable on incline broke, allowing cars to run to the bottom. Four men were non-fatally injured also in this accident. A detailed account of this accident will be found elsewhere in this report.

March 16, 1905; died April 20, 1905. Lewis Harris, Empire Mine, was working as helper for his brother and they were making their last run, when he was caught by a fall of coal and slate.

March 20, 1905. Thomas Phifer, Holly Mine, was shoveling coal from punching machine when a piece of coal and draw slate fell on him. The undercut of the machine had freed the coal from a face seam which could not be seen.

April 20, 1905. Wm. Allen, Ira Nichols, Burt Green, Charles Nichols, Oscar Crump and Wm. Jacobs (Jacobs died April 27th), Cabin Creek Mine, were killed by an explosion of powder. A detailed account of this accident will be found elsewhere in this report.

May 6, 1905. Charles Warlinger, Red Warrior Mine, was taking down a piece of loose slate which was supported by one prop. He knocked the prop out, allowing the slate to fall on him.

June 6, 1905. Curtis Scott, K. & H. No. 106 Mine, was killed by being caught by a fall of draw slate.

June 27, 1905. S. C. Brown, Keystone Mine, was killed by a fall of slate.

June 27, 1905. Edward W. Riley, Imperial No. 1 Mine, was loading a mine car when he was caught and killed by a fall of slate.

Putnam County.

Aug. 18, 1904. George H. Caldwell, Oak Forest Mine, was working at the face of his room when he was caught by a fall of slate.

May 15, 1905. Thomas Plummer, Plymouth Mine, was standing in entry at mouth of airway when a piece of heavy top fell on him.

Fayette County.

July 2, 1904. Henry Bronsky, Scarbro No. 1 Mine, was riding up on cage when he became unbalanced and fell off. He fell about 50 feet, and was killed instantly.

July 7, 1904. Henry Green, Kilsyth Mine, was killed by the mule he was driving kicking prop out from under some slate allowing the same to fall on him.

July 20, 1904. Peter Sepovitch, Scarbro No. 1 Mine, was killed by a fall of top coal.

July 20, 1904; died July 21, 1904. Roy Linthicum, Kay Moor No. 1 Mine, was riding on haulage truck and standing up and looking around. He was caught under the frame provided for holding the rope down.

July 23, 1904. Vincenzo Quigliata, Macdonald Mine, was in the mine seeking work and had been to look at a place and returning from same

was riding on rear of loaded car with the driver when the car left the track and struck a post supporting cross timbers, knocking it out and allowing slate resting thereon to fall on him.

July 28, 1904; died July 30, 1904. Mike Gilsy, Collins Mine, was killed by a fall of sandstone caused by failure to set props.

Aug. 1, 1904. Angelo Samborizo, Kilsyth Mine, was loading car in his room when slate fell, striking him on temple.

Aug. 8, 1905. Fred Sowers, Wingrove Shaft Mine, by some mishap slipped and fell into shaft when returning the bucket after dumping.

Aug. 9, 1904. Joe Johnson, Boone Mine, was killed by a fall of slate. He had been told by his partner and the mine boss to take the slate down, but disobeyed instructions.

Aug. 16, 1904. Harry Henderson, Ballinger No. 1 Mine, was riding up the incline when one of the miners pulled coupling pin out just before cars landed on top, allowing cars to run back down incline.

Aug. 17, 1904. Samuel Sweet, Kay Moor No. 1 Mine, had not been at work over an hour when a large piece of slate fell on him.

Sept. 1, 1904. Owen Clarke, K. & H. No. 117 Mine, was riding up incline when coupling broke at the top of the hill, allowing car to run back down incline.

Sept. 7, 1904. Beverly Redd, Kilsyth Mine, was building a stopping in a breakthrough when a piece of slate fell on him.

Sept. 9, 1904. Stewart Phillips, Eureka No. 2 Mine, fell off the bumpers of a loaded mine car from unknown cause and when found was under the car. He had lost his cap and lamp and was in the dark at the time of the accident.

Sept. 20, 1904. Thomas Williams, Beechwood No. 2 Mine, was under-mining cut in entry when slate fell upon him.

Sept. 21, 1904. Booker Hutson, Kanawha Gas Mine, was employed as a driver. He got in a car that was standing about 80 feet inside of the drift mouth and was standing up in it and leaned back against the electric wire. Electrocuted.

Sept. 28, 1904. Peter Loyd, K. & H. No. 114 Mine, was getting post in mine and on return trip jumped off the motor, foot slipped and he fell in front of motor. He was warned by the motor runner as to the danger in general and was requested to stay off the motor.

Sept. 29, 1904. Wm. Alexander, Red Ash Mine, was working in drift mouth handling cars and was standing near electric wire. He was told to watch out or he would strike a live wire. He said there was no wire there and put up both hands and struck the wire. The shock killed him instantly.

Oct. 20, 1904. Homer Phelps, Vulcan Mine, was killed by being squeezed between top of car of coal and roof of entry.

Nov. 3, 1904. Wm. Michels, Blume Mine, was killed by mine car by undertaking to hold it on heavy grade.

Nov. 9, 1904. Wm. Wright, Fire Creek Mine, was brakeman on tram-road. He was taking trip of 23 loaded mine cars to tipple, and men on trip with him say he had no brakes on cars and trip was running at a

high rate of speed when front car jumped the track, wrecking the trip. Wright was caught under the cars.

Nov. 18, 1904. Wm. Herman, Star Mine, was killed by a fall of coal while undermining the same.

Dec. 5, 1904. Lewis D. Jones, Edgewater No. 3 Mine, was working in entry; had shot down slate to within about eight or nine feet of the face. Was mining coal in face of entry when slate fell on him.

Dec. 7, 1904. George Johnson, Parral Mine, was killed by a large piece of stone breaking over the timber and falling without warning.

Dec. 19, 1904. Grant Lewis, Harvey Mine, was riding a trip of cars coming out of mine and seeing that the trap door was closed he jumped off cars and fell and was rolled by rope and cars.

Dec. 22, 1904. John Herline, Jr., Edgewater Mine No. 1, was killed by a fall of slate near neck of room. The slate was not considered dangerous.

Dec. 27, 1904. Ed. Legg, Gauley Mountain Mine, was killed by a fall of slate.

Dec. 30, 1904. Ollie C. Nunnally, Laurel Creek Mine, was coming out of entry with loaded car. It is supposed mule came unhooked from car coming down grade and when level grade was reached car checked its speed and mule went forward, throwing driver on track, car running partly over him.

Dec. 31, 1904. Wm. M. Carter, Laura Mine, was taking down some top coal when slate fell on him.

Jan. 2, 1905. Archie Parrish, Collins Mine, was coming out with a loaded car when he was caught by falling slate.

Jan. 5, 1905. Guisseppi Mocciarelli, Kilsyth Mine, was lying down making a cut when a piece of top coal and slate fell, striking him on the head.

Jan. 7, 1905. Walter Patton, Kay Moor No. 1 Mine, was employed as a driver and while waiting for some miners to finish loading a car he took one of their picks and commenced to pick at a piece of slate which fell on him after he had just struck two blows. He had been told to let the picks alone and had been cautioned about the slate.

Jan. 10, 1905. Charles Dark, California Mine, was working in a room with another miner mining coal when top coal and draw slate fell, killing him instantly.

Jan. 21, 1905. Andrew Shanta, Derryhale Mine, was hauling loaded car to tipple and when he realized he was about to run his trip into another car he ran to the head of his mule to stop it and failing to do so went to set his brake. When about the front end of his trip the cars came together, squeezing him.

Feb. 11, 1905. G. L. Comer, Kay Moor No. 1 Mine, commenced to work place two days before the accident, when he was told by mine boss to use some headers in the room. He failed to do so and the slate fell as he was in the act of walking from the face of his room.

March 16, 1905. Mat Soulsby, Scarbro No. 2 Mine, was riding on the front end of an empty car passing along close by the right hand side of the shaft bottom and fell in front of the car and the mule pulled the car on top of him.

March 17, 1905. Shields Hunter, Collins Mine, was working under a wing of slate when it fell killing him. He had been warned not to work under this slate and his partner had just received props with which to timber it.

March 18 and 19, 1905. Percy Wood, Andrew Weir, Claybon Moseley, Wm. Koon, Chas. Jones, Hollie Jarrett, Clarence Allen, Thos. Allen, Joseph Kioski, Martin Kioski, Chas. Kruger, Steve Noyt, Clarence Jackson, Chas. Gwinn, J. P. Hutchinson, E. W. Henson, Norman Hutchinson, G. W. Hopkins, Thos. Bannister, Jas. Gwinn, J. E. Phillpis, Henderson Moseley, D. C. Hutchinson and Brack Jarrell, Rush Run-Red Ash Mines, were killed by an explosion of dust. A detailed description of this accident will be found in another part of this report.

April 4, 1905. James Caldwell, Buffalo Mine, was killed by a fall of slate. There was a long slip in roof which had been working for some time. He went under it to throw out some coal. The slip commenced to work and his partner shouted to him to run, which he did, but in the wrong direction, a piece of slate catching him.

April 8, 1905; died April 17, 1905. Amos Skaggs, Lookout Mine, was walking in the roadway of his working place when a piece of slate fell on him.

April 25, 1905. J. W. Rice, Kay Moor No. 2 Mine, was mining coal that had been shot on the solid when a piece of slate fell at the face of room and near left rib where he was mining.

April 29, 1905. John Felty, Slater Mine, was bringing out a trip and was running down a heavy grade at too rapid a rate of speed for safety when the motor left the track, throwing him off and inflicting the injuries that cause his death.

May 11, 1905. John Donahue, Boomer No. 2 Mine, was killed by a fall of slate at the face of his room.

May 11, 1905. Claud Brown, Collins Mine, was stooping over pulling down some loose coal with his pick when an overhanging wing of top coal and sandrock fell on him.

May 18, 1905. Joe Barnes, Brown Mine, was mining under a piece of coal that had a loose end and was without sprag or prop when it fell on him.

May 20, 1905. Edgar Morris, Concho Mine, was killed by a fall of slate. He had been warned of the danger and his partner had gone out to get some timber with which to secure the slate.

May 24, 1905. Simon Smith, Ballinger No. 1 Mine, was killed by a fall of slate. The room was fairly well timbered and there was plenty of unused timber at hand.

June 6, 1905. Robert L. Burns, Ansted Mine, was helping driver start mule out with loaded car. He was leading the mule. When turning into main entry from breakthrough mule turned to one side, catching Burns against rib and car rolled him.

Raleigh County.

Aug. 18, 1904. John Girdzuz, Raleigh No. 3 Mine, was killed by a fall of slate in his room.

Dec. 16, 1904. Wm. Bowman, Mabscott Mine, was laying track in main air course when he was instantly killed by a fall of slate.

March 28, 1905; died March 29, 1905. W. G. Nunley, Raleigh No. 2 Mine, was killed by a fall of slate at the face of room.

May 29, 1905. John Clark, Mabscott Mine, was making a cut in his room when slate fell on him, pinning him down in the slack in room, where he died from suffocation.

McDowell County.

July 12, 1904. Hampton Dean, Powhatan Mine, was engaged in cleaning up slate preparatory to laying an air line. He and other members of the slate force tried to pull down a piece of slate and as it would not come they decided it was safe and went to work under it, when it fell and killed Dean and injured very slightly another man.

Sept. 2, 1904. Charles and Pleasant Fain, Tug River Mine, failed to set props before commencing to cut a room off from entry and were killed by falling slate.

Sept. 19, 1904. John Olsen, Empire Mine, was run over by a box-car which he was dropping into position for loading. He let car get start and when he tightened on brakes it would not hold, but bumped into car ahead and knocked him off and under the wheels.

Sept. 20, 1904. Martin Frisby, Twin Branch Mine, was boring a hole in the coal for a solid shot when the slate fell on him.

Oct. 16, 1904. Joshua Galimore, Turkey Gap Mine, while stepping from moving larry, fell and was run over.

Nov. 3, 1904. Lorenzy Jessup, Algoma Mine, was killed by a fall of slate.

Nov. 4, 1904. R. N. Morris, McDowell Mine, was working in new entry when he was killed by a fall of slate.

Nov. 4, 1904. Robert Otey, Turkey Gap Mine, was killed by a fall of slate.

Nov. 4, 1904. John Nemeth, Algoma Mine, was killed by a fall of slate.

Nov. 9, 1904. T. W. Moorefield, Shawnee Mine, was working with his brother. Had shot cut twice but all of it failed to come. Went to work loading car when the balance of it fell. They intended to pull it down as soon as they had finished loading the car, but it came before they got through.

Nov. 10, 1904. O. H. Patrick, Pulaski Mine, was climbing over the top of a trip of loaded cars coming down a grade to set brakes and was caught and thrown off the trip by a trolley wire.

Dec. 6, 1904. Gilmour Wright, Keystone Mine, was burned to death by his clothes catching fire from his mine lamp.

Dec. 10, 1904. Marshall Braxton and R. C. Blankenship, Keystone Mine, were cleaning up a fall of slate when some more fell on them.

Jan. 7, 1905. Haines Waller, Pulaski Mine, was riding on a trip of cars on the outside tramroad when the trip struck some cars standing on the main track, catching and crushing him between the cars on which he was riding.

Jan. 11, 1905. Walter L. Christian, Welch Mine, was killed by a fall of slate.

Feb. 1, 1905; died Feb. 2, 1905. Bob. Parsons, McDowell Mine, was employed in the mines as a trapper. He was caught and crushed by a trip of empty cars.

Feb. 6, 1905. John H. Davis, Crozer No. 1 Mine, was pulling down draw slate at the face of his working place and a piece of slate caught on the edge of the car, turned over and fell on him.

Feb. 13, 1905. Geo. W. Bowling, Algoma Mine, was killed by a fall of slate.

Feb. 26, 1905. Joe Adams, Tom Minnish, Mike Pearsheets, John Snyder, Tom Jefferson, Larnie Tylie and John Woodfork, Grapevine Shaft No. 1, were killed by an explosion of powder, dynamite and dust. A detailed description of this accident is contained elsewhere in this report.

March 15, 1905. Richard T. Hurley, Powhatan Mine, was working on a pillar loading coal and was caught by a fall of slate.

March 18, 1905. Roman Carter, Bottom Creek Mine, was employed as a driver. Was standing between loaded and empty cars at head of turn-out and was caught by motor trip.

March 23, 1905. Joseph Demont, Upland No. 1 Mine, was working in a room that was in good condition with the exception of the draw slate. He had failed to take it down and was caught by it when it fell.

April 13, 1905. Houston Wade, Elkhorn Mine, was employed as a trapper. He had left his place of duty, jumped on moving cars and when he jumped off did so on the rib side and was rolled between car and rib.

May 2, 1905. L. C. Brooks, Houston No. 1 Mine, and his helper were working in a pillar. They had mined and shot down a cut of coal, which exposed a slip in the roof. After putting up some props, and as they believed, making it quite safe, they went back and brought in a car and started to load it when a very large piece of slate fell on Brooks, killing him instantly.

May 29, 1905. Walter Austin, Pulaski Mine, was loading a car of coal and was caught by a fall of slate.

June 11, 1905. W. S. Murphy, United States No. 4 Mine, was cleaning up a fall of slate when another came, killing him.

June 20, 1905. Wm. Young, United States No. 3 Mine, was killed by a fall of slate.

June 24, 1905. Kull Zions, Crozer Mine, was killed by a fall of draw slate which he should have taken down.

June 29, 1905. Earl Jones, United States No. 5 Mine, was coming out with a loaded trip and lost control of it. Tried to get over top of cars to get brakes on when loaded trip caught mule team and knocked cars off track, knocking out collar which caught him on top of cars.

Mercer County.

Aug. 24, 1904. Peter Youhouse, Sagamore Mine, was struck on back of head by loose slate left hanging after shot. His duty was to remove the slate and he had been instructed to do so.

Sept. 21, 1904. John Reffren, Pinnacle North Mine, was killed by a fall of slate. Had been instructed to take it down.

Oct. 13, 1904. Thos. Pinkard, Booth-Bowen Mine, was killed by a fall of slate.

Oct. 21, 1904. Thos. E. Reynolds, Crane Creek No. 2 Mine, was killed by a fall of draw slate.

Dec. 7, 1904. John Kolsburg, Pinnacle Mine, was working with an experienced miner who told him to stay from under the draw slate while he could get a bar and pull it down. While the miner was away getting the bar Kolsburg went under the slate and started to pull some more coal down when the slate fell and crushed him.

Jan. 2, 1905. Alex Miller, Booth-Bowen Mine, was drawing a prop from under top coal. Coal fell on him.

Feb. 16, 1905. Ed. Dunsford, Buckeye Mine, was killed by a fall of slate in breakthrough.

Mingo County.

Oct. 6, 1904. Albert McDonald, Red Jacket Mine, was killed by a fall of slate. It caught his neck over the side of a car.

Feb. 16, 1905. J. F. Hendricks, Thacker No. 1 Mine, was working in pillar. The mine boss called his attention to loose slate over him. He came out and examined it, but returned to work under it and in a few minutes slate fell upon him.

April 7, 1905. E. B. Massie, Thacker No. 1 Mine, was killed by a fall of slate. The mine foreman had examined the place about five minutes before the accident and told Massie that he did not think the roof safe and for him to timber same. This he neglected to do.

April 19, 1905. Garfield Townsend, Rutherford Mine, was killed by a fall of slate.

May 8, 1905. James Buckner, Red Jacket Mine, was killed by mine car. The driver was pulling a loaded car from his room, which is an up grade haul. He stopped to rest his mules. The mules and the check which the driver had put under the wheel failed to hold the car and it ran back about 20 feet and caught Buckner, who was following closely behind the car.

June 6, 1905. Harry Childers and Henry Swan, War Eagle Mine, were killed by a fall of sandstone. The verdict of the jury was that it was "accidental and unavoidable."

Barbour County.

Dec. 21, 1904. Alexander Vetovich, Century Shaft, was killed by a fall of slate. He was in the act of setting a prop.

May 30, 1905. Charlie Toth, Berryburg Mine, was killed by a fall of slate. He neglected to place proper timber in position for safety although the timber was already in his room.

Grant County.

Jan. 28, 1905. Sle Karp, Henry No. 22 Mine, was killed by a fall of slate.

April 20, 1905. George Blythe, Henry No. 22 Mine, was caught between empty and loaded mine cars.

Mineral County.

Feb. 3, 1905. Lafayette McRobie, Hampshire Mine, was killed by a fall of roof rock.

May 5, 1905; died May 6, 1905. James P. Dixon, Elk Garden No. 6 Mine, was killed by a fall of bone coal and slate. The place is entirely safe and solid on all sides barring the small amount of slate and bone that fell.

May 10, 1905. David Morgan, Gleason Mine, was killed by a fall of roof at working face by a slip in the rock. Failed to secure it properly or take same down.

Preston County.

July 6, 1904. Green Pratt, Austen No. 2 Mine, was driving a cross-cut between rooms. He evidently considered roof in safe condition on account of it being narrow and did not use proper care in timbering. Roof in this place is very brittle and rotten.

Nov. 22, 1904. Peter Rossi, Gorman No. 2 Mine, was killed by a fall of slate on main haulage about 100 feet from the face.

Jan. 12, 1905; died Jan. 15, 1905. James S. Pyles, Atlantic Mine, was coming out of mine on motor. He came in contact with trolley wires and was thrown off motor and crushed between motor and rib.

April 29, 1905. Stephen Ringer, Irona Mine, was run over by railroad car while shifting under tippie.

June 20, 1905. Harry Leach, Irona Mine, was caught by runaway mine car.

Tucker County.

Sept. 7, 1904. Joe McClosky, No. 34 Mine, slipped and tried to catch himself and in doing so caught hold of live wire.

Oct. 15, 1904. Tony Shukis, No. 23 Mine, was killed by a fall of slate.

Oct. 21, 1904; died Oct. 22, 1904. J. H. Elesick, No. 34 Mine, while crossing over sump was caught by the cage and knocked down on the sump block.

March 18, 1905. Albert Babcock, Beacon No. 1 Mine, got his hand caught in the cable wire and no way to control same, was crushed to death.

CONDITION OF THE MINES.

MINE INSPECTORS.

James W. Paul, Chief Mine Inspector, Charleston.

FIRST DISTRICT.

Isaac M. Kelley, Inspector, Clarksburg.

SECOND DISTRICT.

Earl A. Henry, Inspector, Clifton.

THIRD DISTRICT.

Edward Pinkney, Inspector, Montgomery.

FOURTH DISTRICT.

Samuel S. Cooper, Inspector, Keystone.

FIFTH DISTRICT.

Edward V. Byrne, Inspector, Elm Grove.

MINE INSPECTION DISTRICTS.

FIRST DISTRICT.

Counties of Braxton, Brooke, Doddridge, Hancock, Harrison, Lewis, Marion, Marshall, Monongalia, Ohio, Pleasants, Ritchie, Tyler, Upshur, Webster and Wetzel.

SECOND DISTRICT.

Counties of Cabell, Calhoun, Clay, Gilmer, Jackson, Kanawha, Lincoln, Mason, Putnam, Roane, Wirt, Wood and Fayette in part.

THIRD DISTRICT.

Counties of Fayette in part, Greenbrier, Monroe, Nicholas, Pocahontas, Raleigh and Summers.

FOURTH DISTRICT.

Counties of Boone, Logan, Mercer, Mingo, McDowell, Wayne and Wyoming.

FIFTH DISTRICT.

Counties of Barbour, Berkeley, Grant, Hardy, Hampshire, Jefferson, Mineral, Morgan, Pendleton, Preston, Randolph, Taylor and Tucker.

By reason of the large number of mines in the First and Third Districts the Inspector of the Fifth District has been detailed to inspect the mines in the Counties of Brooke, Hancock, Ohio, and Marshall, and the Second District Inspector has been detailed to inspect the mines north of the Kanawha and west of the Gauley Rivers in Fayette County.

This plan has been in effect since July 1, 1901.

Italicized counties are those in which coal mines are operated.

FIRST DISTRICT.

GENERAL SUMMARY OF THE FIRST DISTRICT FOR THE
YEAR ENDING JUNE 30, 1905.

COUNTY.	Number of Open-ings.	No. of Men Killed.	EMPLOYEES.								PRODUCTION.		
			Inside.					Outside.			Grand Total.	Coal (tons of 2,240 lbs.)	Coke (tons of 2,000 lbs.)
			Pick Miners.	Machine Miners.	Machine Runners & Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.			
Brooke	8	1	190	95	16	40	341	38	7	38	379	183,803	.....
Hancock	5	...	15	50	8	10	83	7	...	7	90	58,029	.....
Harrison	46	13	533	1,112	283	662	2,590	477	...	477	3,067	2,560,905	.....
Marion	25	13	1,001	1,220	238	654	3,113	475	183	658	3,771	3,251,989	127,850
Monongalia	5	...	88	56	14	37	195	39	48	87	282	178,752	42,802
Marshall	6	2	40	250	42	69	401	77	...	77	478	380,666	.....
Ohio	6	...	160	...	...	29	189	17	...	17	206	96,752	.....
Totals	101	29	2,027	2,783	601	1,501	6,912	1,130	231	1,361	8,273	6,705,906	170,652

OFFICE OF THE FIRST DISTRICT MINE INSPECTOR,

Clarksburg, W. Va., August 22, 1905.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, West Va.:

SIR—I herewith, in compliance with the mining laws of the State of West Virginia, submit my annual report of the mines inspected by me during the year ending June 30, 1905.

I inspected during the year two hundred and twelve (212) mines.

I investigated sixteen (16) fatal accidents, it being my rule to investigate all fatal and serious accidents. The report of all inspections and accidents were forwarded to your office each month.

I am pleased to report that the mines in the First District are in first-class condition with only a few exceptions, the exceptions only existing where local conditions are such that it is impossible to place them in the first-class list. During the year improvements have gone steadily on. Ventilation, drainage and all conditions for the safety of the miners and employees have been improved.

Relations between operators and employees have been harmonious, without exception.

I have been aided in my official duties by both operators and miners. The superintendents and mine bosses have shown a willingness to make any improvements looking to the betterment of conditions and the safety of the miners and employees. This uniform co-operation has made the work of inspection in the First District both pleasant and efficacious, and personally I desire to take this opportunity of thanking the operators and local managers for their courtesy and kindness.

I desire also to thank you for your opportune counsel and advice and to express my highest appreciation for all your valuable assistance.

Respectfully submitted,

I. M. KELLEY,

Mine Inspector, 1st District.

Total number of mines in First District	73
Mines not operating	8
as follows:	

O'Neil Nos. 2 and 3

Powell

Glen Falls

Big Falls

O'Donald

Farnum

Fulmer

Allen.

Total number inspections during year	212
--------------------------------------------	-----

CONDITION OF THE MINES IN THE FIRST MINING DISTRICT.

I. M. KELLEY, INSPECTOR.

(Note—Mines Nos. 1 to 13 inclusive, and 88 to 99 inclusive, were inspected and reported upon by Mr. Byrne, Inspector of the Fifth District.)

BROOKE COUNTY.

PANHANDLE COAL CO.

No. 1. *Blanche Mine*.—Not in operation when I was in the county and no inspection was made.

A. GILCHRIST & SONS COAL CO.

No. 2. *Wiota*.—This mine was visited twice, but it was not in operation and no inspection was made.

THE LA BELLE COAL CO.

No. 3. *Lewis Mine*.—This mine was regularly inspected once between Dec., 1904, and Aug., 1905. Conditions in regard to safety were good. Ventilation and drainage were found to be only fair. A fan was recommended to be put in the mine.

Rules were posted, but blankets and stretchers were not kept on hand. A good quality of oil was kept for illuminating purposes.

Mine map extended to July, 1904, has been furnished this office.

O. L. MARQUET, Supt.

W. C. WILSON and WILSON HOLMES, Mine Bosses.

No. 4. *Bowman Mine*.—This mine is not in operation and no inspection was made.

BEECH BOTTOM COAL CO.

No. 5. *Beech Bottom Mine*.—This mine was regularly inspected once between Dec., 1904, and Aug., 1905. Conditions in regard to safety were good. Ventilation and drainage were only fair. Recommended that the air be more properly distributed at the working places.

Rules posted, but blankets and stretchers were not kept on hand.

A good quality of oil was kept on hand for illuminating purposes.

There were two accidents in this mine, both were fatal. One was caused by a fall of slate and the other by a boy falling off the tippie.

Mine map extended to July, 1904, has been furnished this office.

ELMER HOUGH, Supt.

J. R. PATRICK, Mine Boss.

LEWIS-FINDLEY COAL COMPANY.

No. 6. *Locust Grove Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. The conditions in regard to safety was found to be good. Ventilation was found to be good; drainage to be only fair. One accident occurred in this mine, and proved fatal.

Rules were posted, but no blankets and stretchers kept on hand. A good quality of oil was found to be in use.

A map of this mine, extended to July, 1904, has been furnished this office.

W. L. METHENY, Supt.

WM. RICHARDS, Mine Boss.

WELLSBURG COAL CO.

No. 7. *Wellsburg Mine*.—This mine was not in operation and no inspection was made; mine in hands of receivers, and never been in operation.

LA BELLE IRON WORKS.

No. 8. *LaBelle Shaft*.—This is a shaft mine, with opening on the Ohio side, extending under the river into West Virginia. This mine has been regularly inspected three times between December, 1904, and August, 1905, jointly by J. P. Davis and E. V. Byrne, when the conditions in regard to safety were found to be good; ventilation was good; drainage fairly good throughout the mines. On my last visit in the main entry and water level the air was insufficient.

Depth of shaft to surface landing, 198 ft. Main entry course S. 15° E., goes under the river at X1250 and crosses at right angles to channel line. The West Virginia side is X1956, making the river 706 ft. wide at this point.

There were small quantities of explosive gas found in this mine.

Rules were posted; blankets and stretchers kept on hand. A good quality of oil for illuminating purposes on hand.

P. J. HARRIGAN, Supt.

ARCHIE LAFFERTY, Mine Boss.

THOMAS McPHAIL, Fire Boss.

HANCOCK COUNTY.

M. M. CULLEN.

No. 9. *Porter Mine*.—This mine was not in operation and no inspection was made.

THE MARQUET COAL CO.

Nos. 10, 11 and 12. *Marquet Mines Nos. 1, 2 and 3*.—No. 2 Mine is worked out and is now closed. Mine No. 1 was regularly inspected once between December, 1904, and August, 1905.

Conditions in regard to safety were good. Ventilation was good and drainage was only fair.

Rules were posted; blankets and stretches were kept on hand. A good quality of oil for illuminating purposes was found to be in use.

A map showing mine workings extended to July, 1905, has been furnished this office.

C. F. WAGONER and O. F. MARQUET, Supts.

WM. LIDYARD, Mine Boss.

CONGO COAL CO.

No. 13. *Brenneman Mine*.—Idle.

HARRISON COUNTY.

CLARKSBURG FUEL COMPANY.

No. 14. *Pinnickinnick Mine, Pittsburg Seam*.—Located 1 mile E. of Clarksburg, on the B. & O. R. R. During the past year a tram road has been built to a coaling station on the main line of the B. & O. R. R. This coaling station is equipped with all the modern electric machinery. These mines have been improved in ventilation and drainage. Rope haulage has been extended, making this one of our up-to-date mines. Oil for illumination is up to the requirement. Crosscuts are regularly driven; doors and stoppings in good repair; special rules posted; mining laws well observed.

J. H. NUZUM, Supt.

THOS. POLLOCK, Mine Boss.

No. 15. *Fall Run Mine, Pittsburg Seam*.—Located 3 miles north of Clarksburg on the M. R. Div. of the B. & O. R. R. Ventilated from the Pinnickinnick Mine on the south and from the Dunham Mine on the north; also has natural ventilation. Drainage good; haulways clean and in good repair; timbering and all conditions for safety satisfactory.

H. H. WATSON, Supt.

W. B. SIMS, Mine Boss.

No. 16. *Dixie Mines, Pittsburg Vein*.—This mine is located 2 miles south of Clarksburg, on the W. Va. & Pittsburg Division of the B. & O. R. R. During the year considerable trouble has been experienced on account of exceedingly bad roof, which is composed of soft soap-stone and lime boulders. The main heading was closed and an entry driven through the barrier pillar from 2nd right to the solid coal at the 4th right heading; this makes good, safe hauling and overcomes bad drainage. Furnace ventilation, which furnishes sufficient air. When the improvements now under way are completed this mine will be in a satisfactory condition.

G. W. ELIASON, Supt. and Mine Boss.

No. 17. *Two Lick Mine, Pittsburg Seam*.—This mine is located 6 miles south of Clarksburg on the W. Va. & Pittsburg Division of the B. & O. R. R. Drift mine. Coal varies from 7 to 9 feet in thickness. Development on the three entry system with 15 feet pillars between entries. Rooms driven 40 feet from center to center; rooms 20 feet wide. Good roof; no loose slate found on the haulways. Roads are clean; crosscuts are regularly driven; mine doors and stoppings are in good repair. Ventilation by fan; good air throughout the mine. Drainage and conditions for safety very satisfactory. In all conditions it comes up to the requirements of the law.

L. W. SMITH, Supt.

C. T. GANDY, Mine Boss.

No. 18. *Interstate Mine, Pittsburg Seam*.—Located on the W. Va. & Pittsburg Div. of the B. & O. R. R., 9 miles south of Clarksburg. Quite a number of improvements have been made during the year at this mine. Ventilation, drainage and timbering good; haulways are clean and in good repair, with ample room to pass mine cars; oil for illumination, legal test. Had some trouble here as well as elsewhere in the district getting the miners in the way of using pure oil. Conditions in that line are satisfactory, with a few exceptions. All appliances for mining and handling coal are in good repair. Special rules are posted; stretchers and blankets on hand, as required by law. All conditions in and about this mine are satisfactory.

LOWELL CHILDS, Supt.

L. C. KEENER, Mine Boss.

Nos. 19 and 20. *O'Neil Mine Nos. 1 and 4*.—Located on the B. & O. R. R. 5 miles west of Clarksburg. During the past year changes have been made at these mines which have made great improvements, not only in the general conditions for safety, ventilation and drainage, but in the economical handling of coal.

Mines Nos. 2 and 3 have been closed and No. 4 has been opened on the northwest, which will allow all the coal to be worked from opening No. 4 to the southeast. This will give good drainage and take the coal from Nos. 1 and 2 with a down-grade haul.

No. 3 has given a great amount of trouble on account of the swampy condition of pavement; only a small block of coal remains to be taken from No. 1 opening.

All conditions in and about the mines are satisfactory.

J. R. ELSESS, Supt.

S. L. SCHRADER, Mine Boss.

FAIRMONT COAL COMPANY.

No. 21. *Enterprise Mine, Pittsburg Seam*.—Drift. Located 13 miles south of Fairmont on the M. R. Division of the B. & O. R. R. Coal at this mine varies in thickness from 8 to 9 feet. Slate top, which makes fairly good roof. Worked on the double entry system; 16 ft. pillars between entries. During the year main entry has been re-timbered. Other improvements have been made, making this an up-to-date plant. Ventilation, drainage, timbering, roadways and all conditions up to the requirements. Special rules are posted; stretchers and blankets on hand; oil for illumination legal test. I find all conditions satisfactory, the law being complied with.

G. W. FLEMING, Supt.

B. E. SATTERFIELD, Mine Boss.

No. 22. *Viropa Mine, Pittsburg Seam*.—This mine is located 14 miles south of Fairmont on the M. R. Division of the B. & O. R. R. Coal in this mine varies in thickness from 8 to 9 ft. Worked on the double entry system. Slate top, which makes good roof. This mine is well timbered throughout. Ventilation and drainage good. Roadways are in good repair, free from slate and coal. Crosscuts are regularly driven; doors and stoppings are in good repair. All machinery and appliances for mining and handling coal are in first-class condition. This mine in every department is very satisfactory.

G. W. FLEMING, Supt.

W. P. WALLACE, Mine Boss.

No. 23. *Ehlen Mine, Pittsburg Seam.*—Located sixteen miles north of Clarksburg on M. R. Div. of the B. & O. R. R. Coal varies in thickness from $7\frac{1}{2}$ to $8\frac{1}{2}$ feet and is worked on the double entry system. Ventilation good, drainage fair, timbering good; oil for illuminating up to the requirements; mechanical appliances for mining and handling coal in good condition; rules posted; stretchers on hand, as the law requires. All conditions in and about this mine satisfactory.

THOMAS JARRETT, JR., Supt.

H. S. COLBORN, Mine Boss.

No. 24. *Solon Mine, Pittsburg Seam.*—Located 15 miles north of Clarksburg on the M. R. Division of the B. & O. R. R. This mine is in excellent condition in every respect. It fully complies with the requirements of the law and is being well looked after.

THOS. JARRETT, JR., Supt.

D. A. SATTERFIELD, Mine Boss.

No. 25. *Gypsy Mine, Pittsburg Seam.*—Located 12 miles north of Clarksburg on the M. R. Division of the B. & O. R. R. This mine is in excellent condition in every respect; fully up to the requirements of the law. Engines, boilers and machinery are of the most substantial character. Ventilation and drainage good; doors and stoppings in good repair; mining laws in reference to oil, powder, healthfulness and safety are being complied with.

What is known as the Harbert Mine is a part of the Gypsy Mine, all the coal going to the same tipple.

C. F. ICE, Supt.

BERT RUSSELL, Mine Boss.

No. 26. *Maulsby Mine, Pittsburg Seam.*—This mine has not been in operation to any extent during the last year. One visit was made; conditions found satisfactory.

C. F. ICE, Supt.

No. 27. *Meadowbrook Mine, Pittsburg Coal.*—Located on the M. R. Div. of B. & O. R. R. 9 miles north of Clarksburg. The coal in this mine varies in thickness from 8 to $8\frac{1}{2}$ feet in thickness. This mine is in safe, healthful condition. Ventilation good, drainage good. On each visit during the year I found all conditions in and about this mine very satisfactory. Haulways clean and in good repair.

P. B. ROBINSON, Supt.

C. D. POWELL, Mine Boss.

No. 28. *Globe Mine, Pittsburg Seam.*—Located $6\frac{1}{2}$ miles north of Clarksburg on the M. R. Division of the B. & O. R. R. Improvements have been made at this mine during the past year, making all conditions very satisfactory.

In driving tunnel through the hill water has given some trouble; in a short time the tunnel will be completed; this will give good drainage.

Conditions are such that all the demands of the law, as to ventilation, healthfulness and safety, are complied with.

Operations at the old Farnum Mines have been discontinued. All the coal is being taken out by the way of the Globe Mine.

H. H. WATSON, Supt.

P. J. McANDREWS, Mine Boss

No. 29. *Glen Falls Mine, Pittsburg Seam.*—No work has been done at this mine during the past year.

H. H. WATSON, Supt.

P. J. McANDREWS, Mine Boss.

No. 30. *Dunham Mine, Pittsburg Seam.*—Located on the M. R. Div. of the B. & O. R. R. 5 miles north of Clarksburg. This mine, with all its equipments, is in first-class condition. Drainage and conditions for safety satisfactory; haulways are kept in good repair; rules are posted; mining laws well observed.

H. H. WATSON, Supt.

W. B. SIMS, Mine Boss.

No. 31. *Lynch Mine, Pittsburg Seam.*—Located six miles south of Clarksburg on the West Va. & Pittsburg Div. of the B. & O. R. R. With the exception of an unusually bad roof this mine is in satisfactory condition. Ventilation good. This mine is being carefully timbered. All conditions considered this mine is in a satisfactory condition.

L. W. SMITH, Supt.

D. A. WILSON and Chas. BROOKS, Mine Bosses.

No. 32. *Reynoldsville Mine, Pittsburg Seam.*—Located 7 miles west of Clarksburg on the B. & O. R. R. During the last year the drainage of this mine has been greatly improved. Trouble has been experienced on account of the swampy condition of the pavement; this to a great extent has been overcome and drainage is satisfactory. Safety conditions are exceptionally good; haulways are fairly good; doors and stoppings are in good repair. General conditions are up to the requirements.

H. T. HARDISTY, Supt. and Mine Boss.

No. 33. *Columbia Mine, Pittsburg Seam.*—Located two miles east of Clarksburg on the B. & O. R. R. Drift mine. Coal varies from 7 to 9 feet in thickness; is developed on the double entry system; 50-foot pillars between entries. Rooms driven 45 feet from center to center, and 20 feet wide. Mine doors and stoppings are in good repair; ventilation and drainage good; mine is well timbered; haulways clean. All conditions in and about these mines are up to the requirements.

J. H. NUZUM, Supt.

RALPH BROWN, Mine Boss.

No. 34. *Ocean Mine, Pittsburg Coal.*—This mine is located east of Clarksburg 3 miles and on the B. & O. R. R. Improvements have been made at this mine during the last year. Ventilation, drainage and all conditions for safety, good. Gas was found in this mine for a number of years. At the present time no gas can be found. All mechanical requirements in use are substantial. Haulways in good, clean condition; stoppings in good repair, with all conditions satisfactory.

K. D. BAILEY, Supt.

U. B. BLAKESMITH, Mine Boss.

No. 35. *Riverdale Mine, Pittsburg Coal.*—Located on the M. R. Div. of the B. & O. R. R., 17 miles north of Clarksburg. These mines have been improved during the past year. Ventilation and drainage up to requirements. Mines are well supplied with timber. Oil for illumination above the average; crosscuts regularly driven; stoppings in good repair. General conditions satisfactory.

H. S. TOOTHMAN, Supt.

D. A. WILSON, Mine Boss.

PITTSBURG & FAIRMONT FUEL CO.

Nos. 36 and 37. *Perry Mines Nos. 1 and 2, Pittsburg Seam.*—Located 3 miles west of Clarksburg on the Short Line Div. B. & O. R. R. Ventilation and drainage good; timbering and sanitary condition very good.

These mines are being well looked after and are doing their best to comply with the law.

E. H. WILLIAMS, Supt.

FLOYD GANDY, Mine Boss.

No. 38. *Perry Coaling Station, Pittsburg Seam*.—This mine is located two miles west of Clarksburg on Short Line Div. B. & O. R. R., and is the coaling station for the Short Line Div. This mine is in excellent condition in every respect. All conditions are good and the safety and healthfulness of miners and inside employees are carefully looked after. All conditions come up to the requirements of the law.

E. H. WILLIAMS, Supt.

FLOYD GANDY and R. H. WILSON, Mine Bosses.

No. 39. *Pooz Mine, Pittsburg Coal*.—Located 12 miles north of Clarksburg on the Short Line R. R. Conditions in and about this mine are first class.

C. F. ICE, Supt.

N. H. HACKER, Mine Boss.

No. 40. *Lucas Mine, Pittsburg Coal*.—This mine is located 7 miles north of Clarksburg on the Short Line R. R. Was known in my last report as Pooz Mine No. 2. This mine is in first-class condition.

C. F. ICE, Supt.

JOHN WALTERS, Mine Boss.

FAIRMONT & BALTIMORE COAL & COKE CO.

No. 41. *Fairmore Mine, Pittsburg Coal*.—This mine is located at Adamston, two miles west of Clarksburg. All conditions in and about this mine are satisfactory.

A. L. WHITE, Supt.

T. J. WESTMORELAND, Mine Boss.

COOK COAL & COKE CO.

No. 42. *Girard No. 1 Mine, Pittsburg Coal*.—Located on the M. R. Division of the B. & O. R. R., nine miles north of Clarksburg. Ventilation, drainage and all conditions satisfactory.

W. H. H. MILLER, Supt.

WILLIAM H. STEWARD and C. C. LOVETT, Mine Bosses.

MEADOW BROOK COAL & COKE CO.

No. 43. *Erie Mine, Pittsburg Coal*.—This mine is located on the West Virginia Short Line R. R., six miles north of Clarksburg. All conditions in and about this mine are first class.

L. L. CRAWFORD, Supt.

C. D. M. KRAMER, Mine Boss.

MADEIRA-HILL-CLARK COAL CO.

Nos. 44 and 45. *Waldo Nos. 1 and 2 Mines, Pittsburg Coal*.—Located 4 miles west of Clarksburg on the B. & O. R. R. These mines are equipped with the latest devices for handling coal. All conditions are first class.

H. B. CLARK, Supt.

J. J. ODELL, A. G. COBURN and WM. ASHCRAFT, Mine Bosses.

COOK & HART COAL CO.

No. 46. *Cork Mine, Pittsburg Coal*.—Located five miles south of Clarksburg on the W. Va. & Pittsburg Div. of the B. & O. R. R. During the past

year improvements have been made at this mine. Ventilation, drainage and conditions for safety are very satisfactory.

JAMES F. COOK, Supt.

W. R. WEEKLEY and JOHN LOWTHER, Mine Bosses.

ROSE-BUD COAL CO.

No. 47. *Rosebud Mine, Pittsburg Coal.*—This mine is located 16 miles from Clarksburg on the Short Line R. R. This mine is well equipped and in very satisfactory condition.

SAMUEL CROMER, Supt.

HUTCHINSON FUEL COMPANY.

Nos. 48 and 49. *Hutchinson Mines Nos. 1 and 2, Pittsburg Seam.*—These mines are located near Byron on the W. Va. & Pittsburg Div., B. & O. R. R., south of Clarksburg. Since my last annual report the tipples at this mine burned. They have been rebuilt and equipped with all the latest improvements. Mines are in good condition.

W. G. H. CRAWFORD, Supt.

W. B. MALONE, Mine Boss.

DOUGLASS-RAUCH COAL & COKE COMPANY.

No. 50. *Phoenix Mine, Pittsburg Coal.*—Located 7 miles west of Clarksburg on B. & O. R. R. During the year the entrance to this mine has been retimbered and other improvements made. A small amount of gas was found in the advance workings. The volume of air passing into the mine, which is well distributed, gives good ventilation.

No danger from gas explosions without carelessness on the part of the management or miners.

Drainage good, crosscuts regularly driven. All conditions satisfactory.

B. H. MONROE, Supt. and Mine Boss.

O'GARA COAL MINING COMPANY.

No. 51. *O'Gara Mine, Pittsburg Coal.*—In my report for 1904 this mine was known as Solon-Lowery slope. Located 7 miles west of Clarksburg, on the B. & O. R. R. Ventilation and drainage are good. The mining laws are complied with.

M. MANNIX, Supt. and Mine Boss.

LUKENS COAL CO.

No. 52. *Lukens Mine, Pittsburg Coal.*—Located six miles south of Clarksburg. All conditions in and about this mine are first class.

JOHN TEMPLE, Supt.

JOS. METHENY, Mine Boss.

CHIEFTAIN COAL COMPANY.

Nos. 53 and 54. *Chieftain Mines Nos. 1 and 2, Pittsburg Seam.*—These mines are located seven miles west of Clarksburg on the Parkersburg Div. of the B. & O. R. R. On each visit I found all conditions inside of the mine as well as on the outside in up-to-date condition. Ventilation, drainage and timbering all that could be required.

C. J. WARNOCK, Supt.

OTIS JACOBY, Mine Boss.

PITCAIRN COAL CO. OF W. VA.

No. 55. *Pitcairn Mine, Pittsburg Coal.*—This mine is located one mile south of Clarksburg on the W. Va. & Pittsburg division of the B. & O. R. R. This is an up-to-date plant in all departments.

J. A. JENKINS, Supt.

GRANT WHITE, Mine Boss.

HAROLD COAL AND COKE COMPANY.

No. 56. *Harold Mine, Pittsburg Seam.*—Located two miles north of Clarksburg on the M. R. division of the B. & O. R. R. All conditions in and about this mine are first-class.

WILLIAM SHRADER, Supt.

I. CUNNINGHAM and W. M. McCLOUD, Mine Bosses.

SHORT LINE COAL COMPANY.

No. 57. *Girard Mine No. 2, Pittsburg Seam.*—Located nineteen miles northwest of Clarksburg on the short line division of the B. & O. R. R. Only a few men are employed. Have not shipped a great amount of coal during the last year. All conditions in and about this mine are satisfactory.

ISHAM KEITH, Supt.

B. H. STAIRS, Mine Boss.

NATIONAL COAL CO.

No. 58. *Dola Mine, Pittsburg Seam.*—Located 19 miles west of Clarksburg on Short Line division B. & O. R. R. This mine is not operated to any extent, employing from four to six miners. Mines are in first-class condition.

C. F. OVERHOLT, Supt.

JACOB WELSH, Mine Boss.

*MARION COUNTY.**FAIRMONT COAL CO.*

No. 59. *Murray Mines, Pittsburg Seam.*—Located on the Connellsville division of B. & O. R. R. Ventilation natural and by fan, which furnishes good air throughout the mine. Drainage and sanitary conditions, very satisfactory. This mine is well looked after and the law is fully complied with.

J. H. BAINBRIDGE, Supt.

W. N. MALONE, Mine Boss.

No. 60. *Montana Mine, Pittsburg Seam.*—Located five miles north of Fairmont on Connellsville Div. B. & O. R. R. The condition of this mine is good, despite the natural difficulties in the nature of bad roof and other adverse conditions. We find here a slate roof which is impossible to hold after being exposed to the air. The local management has shown remarkably good judgment in handling these conditons, as the accident list shows fewer accidents than at other mines where conditions are more favorable. Ventilation good. Drainage fair. Sanitary condition satisfactory. Every effort is being made by the management to comply with the law.

C. E. GASKILL, Supt.

W. M. GASKILL, Mine Boss.

No. 61. *West Fairmont Shaft, Pittsburg Seam.*—Located two and one-half miles north of Fairmont on the Wheeling Div. B. & O. R. R. Shaft mine, equipped with the most modern machinery. All the workings are

laid out on the latest and approved methods of working out the coal in an economical manner as well as to make all conditions healthful and safe. Ample ventilation is furnished by two fans. Drainage, timbering, sanitary conditions up to the requirements of the law.

J. J. BRENNEN, Supt. WM. GANTZ, and S. R. FETTY, Mine Bosses.

No. 62. *New England Mine, Pittsburg Seam.*—Located two miles south of Fairmont on the M. R. Div. of the B. & O. R. R. Machine shops are located here equipped with all the latest electric machinery to do repair work. Coal is mined by electric machines, delivered to tipple by motor. All conditions about this mine indicate that it is being well looked after. I find a total volume of air of 116,840 cubic feet per minute delivered as follows:

Second level—third Butt	5304	cubic feet per minute.		
Third level	15250	"	"	"
Fourth River heading	33600	"	"	"
Fifth River heading	27680	"	"	"
Sixth River heading	2000	"	"	"

Main drift not working.

This mine maintains its high standard of excellence, everything possible being done to insure safety to persons employed, as at all other mines in the First District, care is taken to comply with the law. Not more than five pounds of powder to the man is allowed to be taken into the mines and that must be in metallic cans. Every effort is made to prevent miners from using mixed or impure oil. Care is taken in looking after proper timbering of haulways and working places, the wisdom of this has been manifested in a greatly reduced number of accidents.

G. T. WATSON, Supt.

C. H. TARLETON, Mine Boss.

No. 63. *Gaston Mine, Pittsburg Seam.*—Slope mine located one and one-half miles south of Fairmont on the M. R. Div. B. & O. R. R.

Developed on the double entry system. Ventilation good. Large volume of air well distributed. Drainage good. Timbering good.

Everything is being done by the officials in charge not only to comply with the law, but to anticipate and make improvements in excess of the law's demands.

GEORGE T. WATSON, Supt.

JOHN C. THOMPSON, Mine Boss.

B. F. HALDSWORTH and J. O. M. HALL, Fire Bosses.

Nos. 64 & 65. *Monongah Nos. 2, 3 & 5, Pittsburg Coal.*—Located six miles south of Fairmont on the M. R. Div. of the B. & O. R. R.

These mines are well looked after. Ventilation, drainage and sanitary conditions are all that can be required. Improvements have been made and the high excellence maintained in every respect. During the past year an electric power plant has been constructed here which now furnishes power to Monongah mines Nos. 2, 3, 5, 6 and 8. It is claimed that this plant is second to none in West Virginia.

A. J. RUCKMAN, Supt.

THOMAS KILLEEN, Mine Boss Nos. 2 and 5.

JAMES ROGERS, Mine Boss No. 3.

No. 66. *Monongah No. 6, Pittsburg Seam.*—Slope mine located on the north side of the West Fork River seven miles south of Fairmont. Coal is

delivered over steel bridge to tippie on south side of West Fork River. On each visit to this mine it was found in excellent condition. Ventilation all that is required. More air could be provided if necessary. Drainage exceptionally good. Timbering, sanitary and all conditions for safety good. A small amount of gas is found in the advanced workings. Stoppings and brattices are such that a good volume of air is found in all working places. This mine is well looked after and complies with all requirements of the law.

A. J. RUCKMAN, Supt.

THOMAS DONLIN, Mine Boss.

No. 67. *Monongah Mine No. 8, Pittsburg Coal.*—Located on the south side of the West Fork River opposite Monongah Mine No. 3, seven miles from Fairmont. This is a new opening. Coal is being hauled over the Fairmont & Traction R. R. to No. 6 Monongah tippie until the steel bridge is completed over the West Fork River, the coal will then be handled by Monongah tippie No. 3. Electric power is furnished from the power plant at Monongah. No. 8 mine is being equipped with modern machinery. The mine workings are laid out on the latest and most approved plans with a view to the mining of all the coal in the most economical manner, as well as to safety, ventilation, drainage and healthfulness of employes.

A. J. RUCKMAN, Supt.

J. M. McGRAW, Mine Boss

No. 68. *Pennois Mine, Pittsburg Seam.*—Located eight miles south of Fairmont on M. R. Div. B. & O. R. R. Each visit I found this mine in good condition. Good air current throughout all the workings. Drainage good. Roads clear and in good repair. Timbering and all conditions for safety, very satisfactory.

RUSH MILLER, Supt.

JOHN RIGGINS, Mine Boss.

No. 69. *Marion Mine, Pittsburg Coal.*—Drift mine located on the M. R. Div. of the B. & O. R. R., south of Fairmont eight miles. This is a small plant. Was not in operation all of the last year. All conditions in and about this mine are satisfactory, except drainage. On account of swampy conditions, it is impossible to have good drainage. Ventilation and safety conditions are good.

RUSH MILLER, Supt.

HENRY WINNING, Mine Boss.

No. 70. *Anderson Mine, Pittsburg Seam.*—Located nine miles south of Fairmont on the M. R. Div. B. & O. R. R. The condition of this mine was very satisfactory at each visit. Ventilation, drainage and all conditions fully up to the requirements of the law.

RUSH MILLER, Supt.

GEORGE COBURN, Mine Boss.

No. 71. *Highland Mine, Pittsburg Seam.*—Located nine miles south of Fairmont on M. R. Div. B. & O. R. R. This mine was found in good condition, generally a volume of 38,500 cubic feet of air was found on the intake. This was well distributed throughout the mine workings. Very good ventilation. Drainage good. Haulways clean and in good repair. From every indication, I would say that this mine is well looked after by the local management.

RUSH MILLER, Supt.

JOHN PRUNTY, Mine Boss.

No. 72. *Middleton Mine, Pittsburg Seam.*—It was visited three times during the year and found in the following condition: Ventilation, good;

drainage, good; timbering, good. A low grade of oil was found being used at the time of one inspection. Instructions were given that a better grade of oil be used. Three certificates were issued.

RUSH MILLER, Supt.

E. DENT, Mine Boss.

No. 73. *Chiefton Mine*.—This mine operates the Pittsburg seam. It was visited three times during the year at which times the ventilation, drainage and timbering were found good. A low grade of oil was found being used at the time of one inspection and instructions given that a better grade of oil be used. Three certificates were issued.

RUSH MILLER, Supt.

CLAUD ADDISON, Mine Boss.

No. 74. *Hutchinson Mine, Pittsburg Seam*.—Located 12 miles south of Fairmont on M. R. Div. B. & O. R. R. This mine maintains its usual high state of excellence. Ventilation good. Drainage, except in extremely wet weather, good. On account of many breaks in surface by reason of pillars being taken out, water gives some trouble. Timbering and sanitary conditions satisfactory. Oil for illuminating purposes comes up to the requirements. Machinery and haulage in good condition.

G. W. FLEMING, Supt.

W. B. MALONE and THOS. BURLOCK, Mine Bosses.

THE VIRGINIA & PITTSBURG COAL & COKE CO.

No. 75. *King Mine, Pittsburg Seam*.—Located three and one-half miles south of Fairmont. This mine maintains its high standard for ventilation, drainage, timbering and conditions for safety and healthfulness. All pick mining. All conditions in and about this mine showing that care is taken in looking after the safety of employees. Mining laws are being fully complied with.

R. M. HITE, Supt.

JOHN BROWN and GEO. FORTNEY, Mine Bosses.

GEORGES CREEK COAL & IRON CO.

Nos. 76 & 77.—*Chatham Shaft Nos. 1 and 2 Mines, Pittsburg and Sewickley Seams*.—This mine is located near Farmington on the Wheeling Div. of the B. & O. R. R., 11 miles from Fairmont. A small amount of gas is found in this mine. Ventilation and all appliances for the distribution of air is such that no standing gas could be found, and all conditions for safety are first-class. This being one of the up-to-date mines in all departments in this district.

COL. R. L. SOMERVILLE, Gen. Mgr.

JAMES DUITCH, Supt.

E. L. GRIFFITH, Mine Boss, No. 1 Mine.

JOHN McNEIL, Mine Boss No. 2 Mine.

M. E. QUINNON and E. AMBROSE, Fire Bosses.

FEDERAL COAL & COKE CO.

No. 78. *Federal Shaft, Pittsburg Coal*.—This mine is located seven miles north of Fairmont on the Paw Paw Branch of the B. & O. R. R. During the past year improvements have been made at this plant. At this time ventilation, drainage and conditions for safety are very satisfactory.

D. B. STAUFF, Supt. J. L. CLARK and JOHN HUMPAGE, Mine Bosses.

THOMAS WARDLE, Fire Boss.

NEW CENTRAL COAL CO.

No. 79. *Stafford Shaft Mine*.—This mine was inspected five times during the year and certificates issued. On each inspection the ventilation, drainage and timbering were found in good condition. This mine generates some gas, so locked safety lamps are used inside the mine.

DUNCAN SINCLAIR, Supt.

PETER McILHENY, Mine Boss.

THOS. GLEASON, Fire Boss.

KILARM COAL & COKE CO.

No. 80. *Kilarm Mine, Pittsburg Seam*.—Located on the Everson and Adamsville Branch B. & O. R. R. This mine is in excellent condition, considering the great difficulty encountered by rock roof cutting the coal entirely out in some of the workings. These conditions are supposed to be local, the coal showing eight and nine feet south of present developments. All other conditions are first-class, the local management doing everything possible to make the mine safe and healthful. The mining laws are being complied with.

C. E. ZEEK, Supt.

G. B. SKINNER, Mine Boss.

POWELL COAL & COKE CO.

No. 81. *Powell Mine*.—This mine operates the Lower Freeport coal. Conditions in this mine are good. They have installed an 18-foot fan which at a slow speed furnishes ample air, well distributed throughout the mine. It was twice inspected and certificates issued.

J. A. TRUMBATH, Supt.

F. E. PARSONS, Mine Boss.

BIG FALLS COAL CO.

No. 82. *Big Falls Mine*.—This operation is in the Sewickley coal. It was inspected on March 16, 1905, when it had just been opened. It is located on the west side of the Monongahela River, 13 miles north of Fairmont. Coal will be shipped by river. Plan of development good. With the exception of the timber at the mouth of the mine, which was ordered retimbered, found everything in good condition.

JOHN W. MINER, Supt. and Mine Boss.

MONONGALIA COUNTY.

OPEKISKA COAL & COKE CO.

No. 83. *Opekiska Mine, Pittsburg Seam*.—Located 11 miles north of Fairmont on the Connellsville Div. B. & O. R. R. This mine has not been in operation to any extent during the year. All conditions, except mud and drainage, are satisfactory. During wet weather mud and water give a great amount of trouble. Only a few miners are employed. All mining in pick work.

W. S. WOOD, Supt.

FRANK LOVE,[®] Mine Boss.

FAIRMONT COAL CO.

No. 84. *Beechwood Mine, Pittsburg Seam*.—Located 13 miles north of Fairmont on the Connellsville Div. of B. & O. R. R. This mine is in good condition and well looked after. Good air throughout all the working

places. Timbering and drainage good. The law is being complied with and on each visit I found everything in satisfactory condition.
W. W. FERGUSON, Supt. LEE COTTRILL, Mine Boss.

WEST VIRGINIA COAL CO.

No. 85. *Richard Mine, Upper Freeport Seam.*—This mine is located on the Morgantown & Kingwood R. R., four miles from Morgantown. The mines are in excellent condition. Ventilation, drainage, timbering and all conditions for safety up to the requirements of the law. Machinery and all appliances for handling the coal to tipple are first-class. Seventy-five coke ovens are in blast, 50 more are being built. The principle part of the coal mined goes to the ovens. On each visit I found all conditions up to the requirements of the law.

JAMES CARTER and J. B. HANFORD, Superintendents.

O. T. BARNARD, Mine Boss.

DECKERS CREEK C. & C. CO.

No. 86. *Deckers Creek Mine, Upper Freeport Coal.*—This mine is located on the Morgantown & Kingwood R. R., four miles from Morgantown. Drift mine. Ventilation only fair. A change is being made which will make improvements in ventilation. Drainage good. Timbering and all other conditions for safety are very satisfactory. The coal is used in the manufacturing of coke.

All conditions in and about these mines come up to the requirements of the law, except ventilation.

J. J. COLLINS, Supt.

F. E. DAWSON, Mine Boss.

NIAGARA COAL & COKE CO.

No. 87. *Round Bottom Mine, Pittsburg Coal.*—This mine was opened during the year on the north side of the Monongahela River at Round Bottom station on the Pittsburg Div. of the B. & O. R. R. Improvements made to load coal in barges. I found all conditions satisfactory.

JOHN HESTER and R. E. L. ALLEN, Supts. U. R. SMITH, Mine Boss.

MARSHALL COUNTY.

HITCHMAN COAL & COKE CO.

No. 88. *Hitchman Mine.*—This mine was regularly inspected twice between December, 1904, and August, 1905.

This mine is located at Benwood, on the B. & O. Railroad and the coal is reached by fifteen per cent slope, 850 feet long.

This company is operating what is known geologically as the Pittsburg No. 8 vein and which has an average thickness of 5 feet 10 inches at this place. Mine is fully equipped with electric machines and electric haulage; power is furnished by two hundred K. W. generators driven by two 15x16 McEwan engines, the means used to deliver coal from bottom of slope to tipple is known as endless rope haulage. Mine at present employs about 275 men, with a daily output of about 1,500 tons. They have, however, entry driven ahead and have additional room at present time for about

two hundred more men. Ventilation is furnished from a 20-foot force and exhaust Guibal fan.

On the outside this company has a steel trestle, about one thousand feet long, on end of which is a coaling bin with a capacity of one thousand tons, used for coaling B. & O. engines.

Conditions in regard to safety were good. Ventilation and drainage only fair. A small quantity of explosive gas was found in different parts of the mine.

There were three accidents in this mine—two were non-fatal, and one was fatal.

Rules were posted, blankets and stretchers were kept on hand. A good quality of oil found to be in use for illuminating purposes.

A map of this mine extended to March, 1905, has been furnished this office.

W. H. KOCH, Supt.

E. C. PICKETT, Mine Boss.

IKE MURRAY, Fire Boss.

BOGGS RUN MINING AND MANUFACTURING CO.

No. 89. *Boggs Run Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions in regard to safety were found to be good. Ventilation and drainage were good.

This mine has rope haulage, and hauling long trips does not permit trip of loaded cars to be pulled out far enough from door for it to be closed, necessitating the door standing open while part of the trip was being dumped. The management promised to move the door and clear the trip.

Rules are posted, blankets and stretchers are kept on hand. A good quality of oil found to be in use for illuminating purposes.

Mine map extended to July, 1903, has been furnished this office.

PHILLIP KUNZ, Supt.

EUGENE MILLER, Mine Boss.

WHEELING STEEL AND IRON CO.

No. 90. *Benwood Mine*.—This mine was inspected once between December, 1904, and August, 1905, when conditions in regard to safety were found to be good. Ventilation and drainage good.

This mine is in a general state of repairs, as they are doing away with all mule haulage and are putting in motor haulage throughout the entire mine.

Two accidents, not fatal, occurred in this mine.

Rules posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes found to be in use.

A small quantity of explosive gas was found in different parts of the mine.

A mine map extended to 1904 has been furnished this office.

C. DAWSON, Supt.

WM. TURNBULL, Mine Boss.

GLENDALE COAL CO.

No. 91. *Glendale Shaft Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905.

Conditions in regard to safety were good. Ventilation and drainage only fair. Recommended that the air course be cleaned up, as it obstructs both air and drainage. Also that two new doors be constructed on the air course, as the old ones leak very much.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil kept on hand for illuminating purposes.

A mine map extended to December, 1904, has been furnished this office.
J. E. WALLACE, Supt. J. W. SMITH, Mine Boss.

MOUND COAL CO.

No. 92. *Moundsville Shaft*.—This mine was regularly inspected twice between December, 1904, and August, 1905, when condition in regard to general safety was found to be only fair. Ventilation was only fair and drainage good. Recommendations had been made on both visits, that their second opening be made passable for men to travel from their working places to the bottom of the shaft, at present it being impossible to get through. Also recommended that a stairway be built or a cage placed in second opening of the shaft.

I recommended that the fan house be placed in proper condition, as they are losing one-third of the air by leakage; also recommended that safety gates be placed at the top of the shaft.

There were small quantities of explosive gas found in different parts of the mine.

Rules were posted, blankets and stretchers kept on hand. A mixed oil was found to be in use for illuminating purposes.

A map showing the mine workings extended to June, 1904, has been furnished this office.

JOHN BERRY, Supt. JAKE LEONARD, Mine Boss.
ROLLEY BERRY and THOS. PETTERS, Fire Bosses.

THE GLEN EASTON COAL & COKE COMPANY.

No. 93. *McConnell Shaft Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905, when the conditions in regard to safety were found to be good. Ventilation found to be good, with the exception of the west part of the mine, which on my second visit, was found to be improved by the installment of a large fan, with 129,000 cubic feet of air per minute going in the mines. At main west entry face, found 49,500 cubic feet per minute.

Drainage was found to be satisfactory. They are putting in a second opening.

Rules are posted, blankets and stretchers kept on hand.

A small explosion occurred in this mine, when two men were slightly burnt, hands and face.

Oil found to be in use was of a standard quality. Found neatly inclosed in a case for emergency use, a supply of bandages, absorbents, disinfectants, linseed oil, soda and stimulants at this mine.

No map of this mine has yet been furnished this office.
GEORGE W. DAWSON, Supt. and Mine Boss.

OHIO COUNTY.

JOCHUM & COMPANY.

No. 94. *Jochum Mine*.—This mine was not in operation and no inspection was made.

JOHN JOCHUM, Supt. and Mine Boss.

W. H. KASLEY.

No. 95. *Whitaker Mine*.—This mine was not in operation and no inspection was made.

W. H. KASLEY, Supt.

WM. MAGRUDER, Mine Boss.

RICHLAND COAL COMPANY.

No. 96. *Richland Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found to be good. Ventilation and drainage also found to be good. Two accidents occurred in this mine, not fatal.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was found to be in use for illuminating purposes.

A map of this mine, extended to June, 1904, has been furnished this office.

WM. PHILLIPS, Supt.

JOHN AITKENS, Mine Boss.

ELM GROVE COAL CO.

No. 97. *Elm Grove Shaft*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions in regard to safety were found not to be of the best. Ventilation was found good. Drainage found to be only fair.

A small quantity of explosive gas was found in different parts of the mine. The following recommendations have been offered: That the air course be cleaned up, as this causes a stoppage to drainage; also safeties be put on the cages, and a sufficient cover overhead above the cages and a speaking tube extending from the engine to the bottom of the shaft. One accident occurred in this mine, not fatal.

Rules were not posted, blankets and stretchers not kept on hand; a mixed oil was found to be in use for illuminating purposes.

No map of this mine has yet been furnished this office, as is required.

J. B. CHAMBERS, Supt.

JERRY WESTLAKE, Mine Boss.

JIM FENTON, Fire Boss.

REYMANN BREWING COMPANY.

No. 98. *Manchester Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions in regard to safety were not found good. Ventilation and drainage, were fairly good throughout the mine. Two accidents, not fatal, occurred in this mine.

Rules were posted, but blankets and stretchers were not kept on hand. A good quality of oil was found to be in use for illuminating purposes.

A map of this mine has been furnished this office.

C. C. SCHMIDT, Supt.

JOHN DONAHUE, Mine Boss.

WHEELING STEAM COAL COMPANY.

No. 99. *McKinley Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were not found good. Ventilation only fair. Recommended that air be more properly distributed at the working places. Drainage was good.

Rules were posted, but no blankets and stretchers were kept on hand. A good quality of oil was found to be on hand for illuminating purposes.

A map of this mine, extended to June, 1904, has been furnished this office.

PAUL LEONARD, Supt.

ALBERT ROSE, Mine Boss.

LA BELLE IRON WORKS.

La Belle Mine.—This mine was not in operation and no inspection was made. It has been standing idle for the past several years.

SECOND DISTRICT.

GENERAL SUMMARY OF THE SECOND DISTRICT FOR THE
YEAR ENDING JUNE 30, 1905.

COUNTY.	No. of openings.	No. of men killed.	EMPLOYES.								PRODUCTION.		
			Inside.					Outside.			Grand Total.	Coal (tons of 2,240 lbs.)	Coke (tons of 2,000 lbs.)
			Pick Miners.	Machine Miners.	Machine Runners & Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.			
Clay	6	..	50	39	10	14	113	18	...	18	131	60,445	.....
Kanawha....	137	21	1,646	2,067	443	1,321	5,477	802	37	839	6,316	3,126,638	19,993
Lincoln.....	2	..	25	.....	.....	5	30	4	...	4	34	7,695	.....
Mason	9	..	199	.....	.....	36	235	36	...	36	271	77,846	.....
Putnam	9	2	587	.....	2	188	777	89	...	89	866	310,576	.....
Totals	163	23	2,507	2,106	455	1,564	6,632	949	37	986	7,618	3,583,210	19,993

OFFICE OF THE SECOND DISTRICT MINE INSPECTOR,

Clifton, W. Va., August 15, 1905.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.

SIR:—

I herewith respectfully submit to you my annual report as Inspector of Mines of the Second District of West Virginia, for the year ending June 30, 1905.

During the year I made two hundred and twenty-two regular inspections and thirty-three other visits at different mines, these latter being made principally in response to written requests from miners in an effort to improve the systems of ventilation in the several mines.

As to the sanitary condition of the mines, many of them could be improved a great deal by the mine boss paying more careful attention to having the air currents carried to the face of the workings. The construction of a furnace or the installing of a fan at a mine is no assurance that it is properly ventilated. The important part is to see that the air is well distributed to the face of the working places. This cannot be done with improperly constructed mine doors and stoppings. I regret to say that in many of the mines of the Second District the doors are badly neglected. A very small per cent of them are properly constructed and only a few of them are self-closing. The improper construction of doors that prevails has been and is the cause of more suffering than any other source. In many instances they are not properly attended,—in fact, they are often left without an attendant, or get out of repair and are permitted to stand open, thereby cutting off the air-supply from the working places.

The drainage of the mines throughout the district is a matter of small

expense, as a large per cent of them are practically dry, there being only a few that generate any quantity of water.

With few exceptions the mines have exceptionally good roof, there being only a small number that have roof of a dangerous character. As a rule, the miners are well supplied with timber, as the operators endeavor to comply with the law in this respect.

During the year I have visited all of the mines in the district which were in operation and, I believe, I have examined every working place (with but few if any exceptions) in the mines of this district, have talked with the men working therein, and have called their attention to the necessity of keeping the places properly timbered for their own protection. I have also urged upon mine bosses the necessity of giving personal attention to the ventilation and general safety of the mines under their charge, as required by Section 11, of the State Mine Law.

During the past year but few, if any, of the mines have been operated to their full capacity, many of them being idle at short intervals. There have been only a few new developments in the district.

Electric plants have been installed at the following mines: Boomer No. 2, Lucas Ray, Winifrede Gas, Hughston No. 2, and Oakland. Compressed air plants have been installed at Heatherman Mine, Red Warrior and Morton. At present there are ninety-six mines in the district in which the principal part of the coal is mined by machinery. In ninety of these electric mining machines, principally of the Morgan-Gardner and Jeffrey types, are used; and in six the punching machines, operated by compressed air, are used.

During the year several modern tipples have been constructed and eight fans have been installed at different mines in the district.

Comparatively few of the coal operators of this district are complying with Section 20 of the State Mine Law, which requires special rules for the government and operation of the mines to be posted in some conspicuous place about the mines. In every instance I have called special attention to this matter.

In conclusion, I am glad to say that in the performance of my duties as Inspector I have received from the officials and miners of the various mines, kind and courteous treatment, for which I desire to return my thanks.

I also wish to thank you for the able advice and many favors received at your hand during the past year.

Very respectfully

EARL A. HENRY,
Mine Inspector, Second District.

CONDITION OF THE MINES IN THE SECOND DISTRICT.

Earl A. Henry, Inspector.

(Note—Mines Nos. 102, 103 and 226 were inspected and reported upon by Mr. Pinkney, Inspector of the Third District.)

CLAY COUNTY.

DORFEE COAL MINING COMPANY.

No. 100. *Elk Manor Mine*.—This mine is located on Elk River on the main line of the Coal and Coke Railway. The seam operated at this place varies in thickness from four to four and a half feet with a slate parting. The roof is slate and fairly good, and the mine is properly timbered. Drainage moderate. Mine doors and stoppings in fair condition. The present system of ventilation does not meet the requirements of law, but the superintendent gave assurance that a fan would be installed in the near future. Except that the ventilation is slightly deficient, the conditions of the mine are generally good. The principal part of the coal is mined by electric machines with good results. Rules are posted at mine.

GEORGE W. LA RUE, Supt. S. T. HOGE, Mine Boss.

OHIO COAL MINING COMPANY.

No. 101. *Ohio Mine*.—This mine is located on Elk River on the main line of the Coal and Coke Railway. The coal at this point varies in thickness from three to three and a half feet. The roof is very good and the mine properly timbered. Drainage good. Ventilation is by natural means and is sufficient owing to the small number of men employed. A small electric plant was installed during the year, but the output of the mine has been small and very little done toward development. Rules are not posted, as required by law.

J. F. KILBRIDE, Supt.

C. T. KING and F. OTIS WELSH, Mine Bosses.

CARTER COAL CO.

No. 102. *Carter Mine*.—This is a drift mine located on Bell Creek on the Gauley Branch of the C. & O. Railway.

The developments are in the Coalburg Seam and are conducted on the double entry system. The ventilation is produced by a small furnace and for the present is fairly good. All other conditions and arrangements were found in excellent order and apparently safe in every detail.

Three regular inspections were made of the mine during the year and on each occasion it was found in a satisfactory condition and apparently safe in every detail.

WM. TAMPLIN, Gen. Mgr.

W. R. COTTLE, Mine Boss.

GAULEY CONSOLIDATED COAL CO.

No. 103. *Scott Mine*.—This is a drift mine located on the Open Fork of Bell Creek. The developments are in the Coalburg Seam and are conducted on the double entry system. The ventilation is produced by two small furnaces and is fairly good. The drainage is moderate. The roof is fairly good and all haulways are in good order and apparently safe.

Two inspections were made of the mine during the year and on each occasion the conditions existing were found satisfactory and apparently safe in every respect.

SAM. L. WALKER, Supt.

JAMES CORBETT, Mine Boss.

KANAWHA COUNTY.

FALLING ROCK CANNEL COAL COMPANY.

No. 106. *Jones Mine*.—This mine is situated on a Narrow Gauge Road connecting with the Coal and Coke Railway. The Cannel Coal Seam is operated and, at this place, has an average thickness of two feet. From eighteen to twenty-four inches of the roof is taken down to give sufficient height for haulage. The roof is sandstone and slate and is very good. Mine doors and stoppings are in fair condition and drainage moderate. Ventilation is produced by a twelve-foot fan with good results. Rules are not posted at the mine, as required by law.

H. G. YOUNG, Supt.

R. B. YOUNG, Mine Boss.

KEYSTONE COAL COMPANY.

No. 107. *Graham Mine*.—This mine is located on the Coal and Coke Railway. During the past year it was only operated at intervals, being idle a greater part of the time, and when in operation it is run on a very cheap scale. At the time of last inspection Mr. Bentley was found filling the positions of superintendent, mine boss, and driver. It was also found at this time, that there was no fire in the furnace and the ventilation, consequently, very deficient. Drainage bad. The roof is generally good and the mine fairly well timbered. Rules are not posted at the mine, as required. A letter was addressed to the management, calling attention to the defective conditions of this mine, with a request that the State mine law be complied with.

PETER BENTLEY, Supt.

E. P. BENTLEY, Mine Boss.

THE ELK COAL COMPANY.

No. 108. *Queen Shoals Mine*.—This mine is located on the Coal and Coke Railway. It is ventilated by means of a furnace which gives very fair results when properly attended. Mine doors and stoppings in fair condition. The roof is slate and generally good and the mine properly timbered. Drainage fair. Conditions in regard to safety good. Rules are posted at the mine.

HENRY DAVIS, Supt.

G. P. POWERS, Mine Boss.

No. 109. *Turner Mine*.—This mine is located on Morris Creek on a branch line to the Coal and Coke Railway. Ventilation is produced by a furnace which gives satisfactory results. The roof is slate and the conditions in regard to safety very good. Drainage fair and the mine is properly timbered. The mine has not been operated to any great extent this year.

HENRY DAVIS, Supt.

W. B. DAVIS, Mine Boss.

No. 110. *Morris Creek No. 2*.—This mine is located on Morris Creek on a branch line to the Coal and Coke Railway, and is operated in connection with the Turner Mine, the product of both mines being loaded from one tipple. This mine is properly ventilated by means of ten-foot Thayer fan. The roof is sandstone and slate and is very good. Mine doors and stoppings in fair condition. Drainage good. Rules are posted and blan-

kets and stretchers kept on hand. Oil used for illuminating purposes seems to be of a fair quality.

HENRY DAVIS, Supt.

W. B. DAVIS, Mine Boss.

CLENDENIN COAL COMPANY.

No. 111. *Ramage Mine*.—This mine is located on the main line of the Coal and Coke Railway near Clendenin. It was opened during the year and operates the No. 5 Seam which, at this place, has a thickness of from thirty to thirty-six inches. The roof is slate and generally good. Ventilation is by means of a temporary furnace which gives sufficient air for the number of men employed. At the time of inspection a new tippie had been completed, but very little had been done toward developing the mine.

J. B. RAMAGE, Supt.

D. S. HAMMICK, Mine Boss.

No. 112. *Clendenin Mine*.—This mine is located on the main line of the Coal and Coke Railway. It was idle the past year and nothing definite could be learned as to when it would resume operation. For this reason no inspection was made.

G. W. GAGHAN, Supt.

GEORGE THOMPSON, Mine Boss.

LUCAS-RAY COAL COMPANY.

No. 113. *Lucas-Ray Mine*.—This mine is located on Morris Creek on a branch line to the Coal and Coke Railway. No shipments of coal were made from this mine during the past year, but recently an electric plant has been constructed and preparations are being made to begin operations at its full capacity as soon as electric mining machines can be installed. SAMUEL SIMPKINS, Supt. and Mine Boss.

JEFFERSON COAL COMPANY.

No. 114. *Jefferson No. 1 Mine*.—This mine is located on Morris Creek on a branch line to the Coal and Coke Railway. It has been idle during the past year and for this reason, no inspection was made. A compressed air-plant and punching machines have recently been installed and preparations were being made to resume operations in the near future.

JAMES HEATHERMAN, Supt. and Mine Boss.

PEN MAR MINING COMPANY.

No. 115. *Pen Mar Mine No. 1*.—This mine is located on the main line of the Coal and Coke Railway and has been operated only at irregular intervals during the past year. Ventilation is produced by natural means with results that are far from satisfactory. In some sections of the mine the drainage is very poor. The roof is slate and generally good. The attention of the management was called to the defective system of ventilation and drainage with the request that the same be remedied. Rules have not been adopted, nor have blankets or stretchers been kept on hand.

J. G. GALBREATH, Supt.

CHARLES JOHNSON, Mine Boss.

J. G. VAUGHAN.

No. 116. *Sycamore Mine*.—This mine is located on the main line of the

Coal and Coke Railway. Its capacity is very small and but few men are employed. But one inspection was made at this mine during the past year, at which time the conditions in regard to ventilation, drainage and general safety were found to be very good. Any increase in the number of miners employed here will necessitate the installing of a mechanical system of ventilation.

J. G. VAUGHAN, Supt. and Mine Boss.

MILL CREEK CANNEL COAL COMPANY.

No. 117. *Mill Creek Mine.*—This mine is situated on Mill Creek the coal being hauled four and a half miles over a narrow guage road to a tippie on the main line of the Coal and Coke Railway. The Cannel Coal Seam is operated at this mine and varies in thickness from three and a half to four and a half feet. Developments are on the double entry system and ventilation is produced by a twelve-foot fan with satisfactory results. Mine doors and stoppings are in good repair. Drainage fair and general safety good. Oil used for illuminating purposes seemed to be of a fair quality. Rules are not posted at the mine.

W. E. BROOKS, Supt.

JAMES MACLERY and W. H. MEASE, Mine Bosses.

BLACK HAWK COAL COMPANY.

No. 118. *Black Hawk Mine.*—This mine is located on the main line of the Kanawha and Michigan Railroad. While there has been no shipment of coal from this mine during the past year, there has been a great deal of improvement in ventilation and drainage. Nothing definite could be learned as to when the mine would resume operation.

E. H. ROBERTSON, Supt.

J. B. LAWRENCE, Mine Boss.

CAMPBELL'S CREEK COAL COMPANY.

No. 119. *Calderwood, or New Mine.*—This mine is located on Campbell's Creek near Malden and operates the Campbell's Creek Seam, which varies in thickness from four and a half to five and a half feet. The roof is good except in some sections in which there is a draw slate which varies in thickness from eight to fifteen inches and is of an uncertain and dangerous nature and requires careful attention to insure safety. The miners are well supplied with timber and, as a rule, the mine was properly timbered. Drainage is good. A fan and furnace are used as a system of ventilation with very good results. The principal work at this mine is the drawing of pillars. The mine has been idle the greater portion of the year, but it is the intention to resume operation in October next.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

No. 120. *Co-operative, or No. 1 Mine.*—This mine is located on Campbell's Creek and operates the No. 5 Seam of coal which varies in thickness from four to five and a half feet. The roof is slate and generally good. Ventilation is produced by a ten-foot Thayer fan which gives fifty-eight thousand cubic feet of air per minute at the intake and this is properly distributed throughout the mine. Mine doors and stoppings are in good condition and drainage fair. The mine is properly timbered and the haul-

ways kept in good condition with ample room for workmen to pass the cars. Rules are posted at the mine and stretchers and blankets kept on hand.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

BURNING SPRINGS COAL COMPANY.

No. 121. *Burning Springs Mine.*—This is a new mine located eight miles south of Charleston on the Burning Springs Railroad, a branch line to the Kanawha and Michigan, and operates the Cedar Grove Seam, which varies in thickness from thirty-four to forty inches. The roof is generally good and the mine generates but a small quantity of water. A six-foot Thayer fan has recently been installed, which is operated with a gasoline engine with very good results. The company owns a forty-ton locomotive and twenty cars of forty tons capacity each, which are used in delivering the product of this mine to the Kanawha and Michigan Railway. As yet no rules are posted at the mine; neither are stretchers and blankets kept on hand.

W. B. STEVENS, Supt.

JAMES HEMMINGS, Mine Boss.

NEW DIAMOND COAL COMPANY.

No. 122. *Black Diamond Mine.*—This mine is located on the main line of the Kanawha and Michigan Railroad, and was idle during the greater portion of the past year and in that time there was a large accumulation of water in the mine, causing the haulways to be wet and muddy. The roof is fairly good and the mine properly timbered. Ventilation is obtained by natural means which gives sufficient air for the number of men employed. The roof is fairly good and properly timbered. Preparations were being made for a better system of drainage. A fair quality of oil was being used for illuminating purposes. Rules are not posted at the mine, nor are stretchers and blankets kept on hand as required by law.

ARTHUR ROBINSON, Supt.

JAMES HEMMINGS, Mine Boss.

QUINCY COAL COMPANY.

No. 123. *Quincy Mine No. 1.*—This mine is located on a branch line to the Kanawha and Michigan Railroad. Ventilation is produced by a furnace which does not give very satisfactory results, this being due to the long distance the air has to travel and neglect to keep the mine doors and stoppings in good repair. The roof is good and the drainage fair and the mine is properly timbered. The oil used for illuminating purposes is of a fairly good quality. Rules are not posted at the mine. The attention of the management was called to the deficiency in ventilation with the request that the fourth right heading be driven to the out-crop to be used as an inlet air way by which means the fresh air will enter the mine near the working places.

WILLIAM DICKINSON, Supt.

W. J. KRANTZ, Mine Boss.

No. 124. *Quincy Mine No. 2.*—This is a new mine located near Dickinson, which was opened during the year and operates the No. 5 Seam, which has a thickness of five feet. The roof is good. The coal lies near the top of the mountain and the surface is very light and for this reason,

during wet weather, the mine generates a considerable quantity of water. As yet no system of drainage has been adopted. Ventilation is produced by natural causes and is sufficient for the present developments. But in the near future a mechanical system of ventilation will be required. Electric mining machines have been installed, power being furnished by a plant located at Quincy Mine No. 1. As yet no rules are posted at the mine, nor stretchers and blankets on hand.

WILLIAM DICKINSON, Supt.

CHARLES MOSS, Mine Boss.

THE WITCHER COAL COMPANY.

No. 125. *Witcher Mine*.—This mine is located at Witcher, on the main line of the Kanawha and Michigan Railroad, and operates the Peerless Seam of coal which varies in thickness from thirty to thirty-six inches. The roof is good and the mine practically dry. This mine was opened in the latter part of 1904, and arrangements completed for shipping coal, but for some reason no coal has been shipped during the year. It was visited twice this year, at which times nothing could be learned as to when the mine would begin operation.

KANAWHA AND HOCKING COAL AND COKE COMPANY.

No. 126. *K. & H. Mine No. 101*.—This mine is located at Shrewsbury on the main line of the Kanawha and Michigan Railroad. The No. 5 Seam of coal is operated which has a thickness varying from five to six feet. The roof is slate and in some sections is very bad and has to be carefully timbered to insure safety. The miners are well supplied with timber, and, as a rule, the mine is properly timbered. As this seam of coal lies near the top of the mountain, the surface is very light and during the wet season the mine generates a great deal of water, causing some sections of the mine to be very wet and muddy. During the year a fan was installed by which means the ventilation has been greatly improved. Rules are posted, blankets and stretchers kept on hand and a fair quality of oil used.

W. F. MANDT, Supt.

WILLIAM MARTIN, Mine Boss.

No. 127. *K. & H. Mine No. 103*.—This mine is located on Kelly's Creek near Cedar Grove and operates the Cedar Grove Seam which varies in thickness from thirty-two to forty inches. The roof is good and the general safety of all entries and rooms is good. Drainage moderate. Ventilation is produced by a six-foot Thayer fan, but the air was found somewhat deficient in the working places which is due to the defective condition of mine doors and stoppings and neglect to make cross-cuts between rooms at the required distance. Stretchers and blankets on hand and rules posted. This mine has been idle since December, and no information was given as to when it would resume operation.

W. F. MANDT, Supt.

JOSEPH S. MILLER, Mine Boss.

No. 128. *K. & H. Mine No. 104*.—This mine is located on Kellys Creek near Cedar Grove and operates the Cedar Grove Seam, which varies in thickness from thirty-two to forty inches. The roof is good and the general safety of all entries and rooms is good. Drainage moderate. Ventilation is produced by a seven-foot Cole fan with fair results. This mine is operated

in connection with No. 103, the products of both mines being handled from the one tippie. Rules were posted and stretchers and blankets on hand. This mine has been idle since December, and no information was given as to when it would resume operation.

W. F. MANDT, Supt.

JOSEPH S. MILLER, Mine Boss.

No. 129. *K. & H. Mine No. 105.*—This mine is located at Mammoth on Kelly's Creek and operates the Coalburg Seam, which at this point has a thickness of from five and a half to six feet. The mine is ventilated by means of a five-foot fan which furnishes a large volume of air and this is properly distributed throughout the mine. The roof is slate and very good. Mine doors and stoppings are in excellent condition. The haulways are kept clean with ample room for workmen to pass the cars. The mine is practically dry and well timbered. Stretchers, blankets and a safety lamp are kept on hand and rules posted. Oil used for illuminating purposes is of a fair quality.

W. F. MANDT, Supt.

THOMAS BOYD, Mine Boss.

No. 130. *K. & H. Mine No. 106.*—This mine is located at Mammoth and operates the No. 5 Seam, which has an average thickness of five feet. The roof is slate and very good, and the mine is properly timbered. Drainage good. A great improvement in ventilation has been made during the year. Crosscuts have been driven at the proper distances, mine doors and stoppings repaired and haulways placed in good condition, with sufficient room for workmen to pass the cars. Safety lamp, stretchers and blankets are kept on hand and rules are posted. Oil used is of a fair quality.

W. F. MANDT, Supt.

J. N. BURGRAF, Mine Boss.

No. 131. *K. & H. Mine No. 108.*—This mine is located on Kelly's Creek, near Manimoth, and operates the Coalburg Seam, which has a thickness of five feet. The roof is good and the general safety of all entries and rooms is good. Drainage moderate. Ventilation is produced by a six-foot Thayer fan with good results. This mine has been idle for the past several months and the management could give no information as to when it would resume operation.

W. F. MANDT, Supt.

HARVEY WILLS, Mine Boss.

No. 132. *K. & H. Mine No. 109.*—This mine is located on Kelly's Creek, one and a half miles from Mammoth and operates the No. 5 Seam, which has an average thickness of five and a half feet. The roof is slate and generally good and the mine is properly timbered. Ventilation is produced by means of a fan, and has been greatly improved during the year by having the cross-cuts driven at proper distances and the mine doors and stoppings put in good condition, thus properly distributing the air throughout the mine. But very little water is generated in this mine; drainage fair. A safety lamp, stretchers and blankets are kept on hand and rules posted. The tippie has been recently remodeled so as to dispense with the labor of two men and, at the same time, handle a much larger quantity of coal.

W. F. MANDT, Supt.

WILLIAM WELCH, Mine Boss.

No. 133. *K. & H. Mine No. 110.*—This mine is located at Riverside on the main line of the Kanawha and Michigan Railroad and operates the

Cedar Grove Seam. It has an excellent slate roof, which is well timbered. Drainage moderate. Ventilation is produced by means of a ten-foot fan, which gives very poor results, there being practically no air in circulation at the working places, this being due to the bad condition of mine doors and stoppings and neglect to keep the breakthroughs in proper condition. A safety lamp, stretchers and blankets are kept on hand and rules posted at the mine. A letter was addressed to the superintendent calling his attention to the deficiency in ventilation with the request that this mine be put in condition to comply with the State mine law.

W. F. MANDT, Supt.

ROBERT MILLER, Mine Boss.

No. 134. *K. & H. Mine No. 119.*—This mine is located near Cedar Grove on the main line of the Kanawha and Michigan Railroad and operates the No. 5 Seam. It has been idle during the entire year, and the management could give no information as to when it would resume operation.

W. F. MANDT, Supt.

KELLYS CREEK COLLIERY COMPANY. *

No. 135. *Kellys Creek Mine No. 1.*—This mine is located at Ward on Kellys Creek and operates the Coalburg Seam, which varies in thickness from four to five feet. The roof is slate and in some sections it is very bad and must be well timbered to insure safety. Drainage moderate. This mine has several openings. At the main opening a fan has been installed and in the near future all other openings will be connected with this one, when ventilation will be up to the requirements. Oil used for illuminating purposes was found to be of a fair quality. Stretchers and blankets are kept on hand. As yet rules are not posted at the mine.

H. T. SMARR, Supt.

WILLIAM SHANNON, Mine Boss.

HUGHES CREEK COAL COMPANY.

No. 136. *Hughston Mine No. 2.*—This mine is located on the main line of the Kanawha and Michigan Railroad and operates the Coalburg Seam, which varies in thickness from four and a half to five feet. In a greater portion of the mine there is a draw slate twelve inches thick which, when taken down, leaves a good roof. The miners are well supplied with timber and the mine is properly timbered. Drainage moderate. Ventilation is by natural causes, which give very unsatisfactory results. Mine doors and stoppings were in fair condition. Crosscuts between rooms are neglected to some extent, several rooms being found driven beyond the proper distance; which rooms were ordered stopped until the crosscuts were made as required by law. The superintendent's attention was called to the deficiency in ventilation with request that a fan be installed without unnecessary delay. During the year an electric plant and mining machines were installed at this mine. Stretchers are kept on hand, but no rules are posted.

JOHN W. MOORE, Supt.

JOHN NUGENT, Mine Boss.

CANNELTON COAL COMPANY.

No. 137. *Cannelton Mine No. 2.*—This mine is located on Smithers Creek and operates the No. 2 Gas Seam, which varies in thickness from five

and a half to eight feet. It has an excellent slate roof. Drainage good. Ventilation meets with the requirements, and the general safety of all rooms and entries is good. Crosscuts are regularly driven and the mine doors and stoppings in good condition. Oil used for illuminating purposes is of fair quality. Haulways are kept clean with ample room for workmen to pass the cars. Stretchers and blankets are kept on hand, but no rules are posted at the mine. During the year this company has taken out all wooden doors and installed the Canton Automatic door, which works very successfully and is quite an improvement in the system of ventilation.

LANGDON LEA, Supt.

CHARLES McCANN, Mine Boss.

THE WILLIS COAL AND COKE COMPANY.

No. 138. *Shrewsbury Mine*.—This mine is located on Lens Creek, two and a half miles from Marmet. It has been idle during the entire year and for this reason no inspection was made.

J. H. SHREWSBURY, Supt.

THE MARMET COAL COMPANY.

No. 139. *Lens Creek Mine*.—This mine is located on Lens Creek four and a half miles from Marmet. It was closed down the early part of the year and nothing definite could be learned as to when it would resume operation.

ALFRED REDDINGTON, Supt.

No. 140. *Butler Mine*.—This mine is located on Lens Creek and operates the Winifrede Seam. The roof is good; drainage moderate. Ventilation is somewhat deficient, especially in the rooms, this being partly due to neglect in having breakthroughs between the rooms driven at proper distances. With this exception the conditions of the mine are generally good. During the year electric mining machines were installed. Power for operating these machines is furnished by a plant located at Lens Creek Mine. Oil used for illuminating purposes was of a fair quality. A safety lamp, stretchers and blankets were kept on hand and rules posted at the mine.

ALFRED REDDINGTON, Supt.

E. NELSON and W. H. STUART, Mine Bosses.

No. 141. *Marmet No. 3 or Monarch Mine*.—This mine is located at Monarch on the main line of the Kanawha and Michigan Railroad and operates the Cedar Grove Seam. The roof is good, drainage moderate. The mine is properly timbered. There are two openings, each of which is ventilated by means of a fan. Ventilation is good on the entries, but deficient in some of the rooms, owing to the neglect to make breakthroughs at proper distances. With this exception the general conditions of the mine are very good. A fair quality of oil is used for illuminating purposes. A safety lamp, stretchers and blankets are kept on hand and rules posted.

ALFRED REDDINGTON, Supt.

ROBERT SNEED, Mine Boss.

WINIFREDE COAL COMPANY.

No. 142. *Winifrede Gas Mine*.—This mine is located on Field's Creek and operates the Peerless Seam. The roof is good, and the mine is prop-

erly timbered. Drainage moderate. Ventilation is produced by means of a furnace, which gives only fair results. The general safety of all entries and rooms is good. Oil used for illuminating purposes is of a fair quality. Deficiencies at this mine are: no rules posted, and stretchers and blankets not kept on hand. During the year an electric plant and mining machines were installed at this mine.

R. B. CASSADY, Supt.

GEORGE PETRY, Mine Boss.

No. 143. *South Mine*.—This mine is located on Field's Creek and operates the Winifrede Seam, which varies in thickness from four and a half to seven and a half feet. Ventilation is produced by a twelve-foot fan, which gives only fair results owing to the very large developments and the great distance that the air has to travel. In the near future the main heading will be driven to the out-crop, which will better the condition as to ventilation. The roof is slate and in some sections of the mine it is very bad and of a dangerous nature. The miners are well supplied with timber and the mine is properly timbered. Drainage good. Mine doors and stoppings in fair condition. The general safety of all entries and rooms was fairly good. It was found that some of the drivers were using an inferior quality of oil, to which the attention of the mine boss was called with the request that this be prohibited in the future. Stretchers and blankets are kept on hand. Deficiency at this mine is no rules posted.

R. B. CASSADY, Supt.

JOHN S. WILLIAMS, Mine Boss.

No. 144. *North Pick Mine*.—This mine is located on Field's Creek and operates the Winifrede Seam, which varies in thickness from five to six and a half feet. The roof is slate and in some sections is only fairly good. The miners are well supplied with timber and the mine is properly timbered. Drainage good. During the past year the condition as to ventilation has been greatly improved by having the mine doors and stoppings thoroughly repaired and cross-cuts regularly driven which gives a fair distribution of air throughout the mine. The general safety of all entries and rooms is fairly good. Oil used for illuminating purposes is of a fair quality. Stretchers are kept on hand but no rules are posted at the mine.

R. B. CASSADY Supt.

JOHN W. GAY, Mine Boss.

No. 145. *North Machine Mine*.—This mine is located on Field's Creek and operates the Winifrede Seam which varies in thickness from four to five and a half feet. The roof is good and the mine properly timbered. Drainage moderate. The ventilation was somewhat deficient, this being due to the slow speed of the fan and the defective condition of the mine doors and stoppings. General safety of all entries and rooms is fairly good. A fair quality of oil is used for illuminating purposes. Stretchers were kept on hand but no rules were posted at the mine.

R. B. CASSADY, Supt.

JAMES W. ELLIOT, Mine Boss.

No. 146. *West Mine*.—This mine is located on Field's Creek and operates the Winifrede Seam, which varies in thickness from four to five feet. The roof is only fairly good and the mine is properly timbered. Drainage moderate. The ventilation was fairly good except at one pair of entries, where the air currents were obstructed by heavy falls of slate. Mine doors and stoppings in fair condition. General safety fairly good. Oil used for

illuminating purposes meets with the requirements. Stretchers are kept on hand but no rules are posted at the mine.

R. B. CASSADY, Supt.

JAMES KENNEDY, Mine Boss.

WEST VIRGINIA PEERLESS COAL COMPANY.

No. 147. *McConihay Mine*.—This mine is located on Field's Creek and operates the Peerless Seam, which varies in thickness from twenty-eight to thirty-six inches. The roof is good. Drainage moderate. This is a very small development and operated on a cheap scale—all arrangements for handling coal being of temporary construction. This mine was visited the early part of the year, at which time it was found to be idle and practically abandoned. No one was found on the ground who could give any information as to who had last operated the mine or when it would resume operation.

COALBURG COLLIERY COMPANY.

No. 148. *Ronda Mine*.—This mine is located on Cabin Creek and operates the Coalburg Seam, which varies in thickness from five to seven feet. The roof, in some sections of the mine, is coal and is very good, while in other sections it is slate and of a dangerous nature. The miners are well supplied with timber and the working places are properly timbered. Drainage moderate. Ventilation is by natural causes, which give very unsatisfactory results. Mine doors and stoppings are in fair condition. Oil used meets with the requirements of law. Stretchers are kept on hand but no rules posted.

W. E. NUGEN and R. C. LEWIS, Supts.

DAN MORRIS and E. W. FINDLEY, Mine Bosses.

PEERLESS GAS COAL COMPANY.

No. 149. *Peerless Mine*.—This mine is located on Cabin Creek and operates the Peerless Seam of coal, which has a thickness of three and a half feet. The roof is good. The mine is practically dry and the general safety of all entries and rooms is good. This mine was closed down in the early part of the year and nothing definite could be learned as to when it would resume operation.

W. H. VANDEN, Supt.

HENRY VOIRES, Mine Boss.

STEVENS COAL COMPANY.

No. 150. *Acme Mine*.—This mine is located on Cabin Creek and operates the Coalburg Seam, which has a thickness of from four and a half to five feet. The roof is slate and generally good after the draw slate is taken down. The working places are fairly timbered. Haulways in good condition. Ventilation meets with the requirements. Crosscuts are regularly driven. Mine doors and stoppings need repair. Drainage moderate. Blankets and stretchers are kept on hand and rules are posted. Oil used for illuminating purposes is of a fair quality.

E. H. SHONK, Supt.

JOHN S. HOLMES, Mine Boss.

No. 151. *Keystone Mine*.—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. This mine generates but very little water. Drainage fair. The

ventilation was found to be somewhat deficient, this being due to the very large developments and the great distance the air has to travel. In the near future a heading will be driven to the out-crop which will be used as an inlet air-way, thus shortening the distance that the air has to travel, and insuring a good system of ventilation. There was quite an accumulation of dust along the haulways, but a force of men were employed at night to load the dust and remove it from the mine and preparations were being made to have all the dusty sections properly sprinkled. With this exception the general safety of all entries and rooms was very good. A fair quality of oil was used for illuminating purposes and rules were posted at the mine. During the year the old power house was replaced with a large concrete building and additional machinery installed. Electric mining machines were also placed in the mine.

E. H. SHONK, Supt.

J. W. BRANHAM, Mine Boss.

No. 152. *Empire Mine*.—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is slate and is good with the exception of some sections where there is a draw slate which varies in thickness from three to ten inches. The miners are well supplied with timber and the working places are properly timbered. Ventilation is produced by means of a fan, but the air was found to be insufficient in the working places, this being due to the bad condition of the mine doors and stoppings which gave evidence of gross neglect. This mine generates but little water. Drainage moderate. A fair quality of oil was used for illuminating purposes. Stretchers were kept on hand and rules posted.

E. H. SHONK, Supt.

W. H. MORRIS, Mine Boss.

SHAMROCK COAL COMPANY.

No. 153. *Shamrock Mine*.—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is good, drainage moderate. Ventilation meets with the requirements and the general safety of all entries and rooms is good. A fair quality of oil is used for illuminating purposes. Rules are posted and stretchers and blankets kept on hand.

A large tipple and storage bins, the construction of which was begun some time since, are now nearing completion. During the year a small fan was installed, which is sufficient for the present development, but in the near future this will be replaced by a larger one.

THOMAS A. KAY, Supt.

JOHN KAY, Mine Boss.

DRY BRANCH COAL COMPANY.

No. 154. *Dry Branch Mine No. 1*.—This mine is located on Cabin Creek and operates the Peerless Seam of coal, which has a thickness of three and a half feet. The roof is good and the mine is properly timbered. Ventilation is produced by means of a furnace which gives very unsatisfactory results. Drainage moderate. A fair quality of oil was used for illuminating purposes. Stretchers were kept on hand but rules were not posted. The attention of the management was called to the deficiency in ventilation with the request that a more adequate system be installed.

R. C. LEWIS, Supt.

E. W. FINLEY and R. M. ODELL, Mine Bosses.

No. 155. *Dry Branch Mine No. 2.*—This mine is located on Cabin Creek and operates the Lewiston Seam, which varies in thickness from four to five feet. The roof is slate and good except some sections of the mine where the draw slate is from six to ten inches in thickness and has to be taken down or properly timbered to insure safety. The miners are well supplied with timber and the working places are fairly timbered. Drainage only moderate. Ventilation is by natural causes and as there are several openings, all of which are connected, the ventilation at the time of last inspection was found to be fairly good. If the development of this mine is increased to any extent it will be necessary to install a mechanical system of ventilation. A fair quality of oil is used for illuminating purposes. Stretchers were kept on hand, but no rules were posted at the mine.

R. C. LEWIS, Supt.

R. M. ODELL, Mine Boss.

No. 156. *Dry Branch Mine No. 3.*—This mine is located on Cabin Creek and operates the Coalburg Seam, which has a thickness of from five to six feet. The roof is generally good and the mine properly timbered. Drainage moderate. Ventilation is by natural causes, which give only fair results. But few men are employed in this mine and but very little has been done in the way of development in the past year.

R. C. LEWIS, Supt.

R. M. ODELL, Mine Boss.

BELLECLARE COAL COMPANY.

No. 157. *Belleclare Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from five and a half to six feet. It has an excellent slate roof. The mine generates a very small quantity of water. Drainage good. Haulways in first class condition. Ventilation is produced by a temporary furnace, which gives very unsatisfactory results. Oil used for illuminating purposes is of a fair quality and the general safety of all entries and rooms is good. Stretchers are kept on hand but no rules are posted. The superintendent's attention was called to the deficiency of the ventilation with the request that a more adequate system be installed.

F. C. PRICHARD, Supt.

JOSEPH POWERS, Mine Boss.

No. 158. *Ruby Mine.*—This mine is located on Cabin Creek and operates the Coalburg Seam, which has an average thickness of five feet. The roof is only fairly good. The miners are well supplied with timber and the mine is properly timbered. Drainage moderate. Ventilation is by natural causes, which gives sufficient air for the small number of men employed. At present the developments are small. In the near future it will be necessary to introduce a mechanical system of ventilation. A fair quality of oil is used for illuminating purposes. Deficiencies at this mine are: no rules posted and stretchers and blankets not kept on hand.

F. C. PRICHARD, Supt.

JOHN FILKINS, Mine Boss.

No. 159. *Dacota Mine.*—This mine is located on Cabin Creek and operates the Eagle or No. 1 Seam, which has a thickness of thirty-six inches. The roof is good, drainage moderate. Ventilation is by natural causes with fair results, there being but few men employed in this mine at any

time. During the past year very little has been done toward developing this mine, it having been idle the greater portion of the time.

F. C. PRICHARD, Supt.

JOSEPH FILKINS, Mine Boss.

CARDIFF COAL COMPANY.

No. 160. *Oakley Mine*.—This mine is located on Cabin Creek and operates the Lewiston Seam, which varies in thickness from four to five feet. The roof is good. Drainage moderate. Ventilation is produced by means of a fan, but the air was found somewhat deficient in the working places, this being due to neglect in constructing mine doors and stoppings at the places where necessary. With this exception the general conditions of the mine were very good. A fair quality of oil was used for illuminating purposes. Stretchers were kept on hand but no rules were posted.

F. R. CLARK, Supt.

JAMES LAYNE, Mine Boss.

No. 161. *Climax Mine*.—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from five to six feet. The roof is good. The system of drainage is very poor. Ventilation is produced by a poorly constructed temporary furnace which gives very unsatisfactory results, there being practically no air in circulation in the working places. A fair quality of oil is used for illuminating purposes. No rules are posted nor are stretchers and blankets kept on hand. A letter addressed to the company calling attention to the inadequate system of ventilation, with the request that a fan be installed at this mine without delay.

J. S. MILLER and W. D. KNIGHT, Superintendents and Mine Bosses.

Nos. 162 and 163. *Horton Mines Nos. 1 and 2*.—These mines are located on Paint Branch of Cabin Creek and operate the Coalburg Seam, which has a thickness of five feet. The roof is good. Drainage only moderate. These mines are ventilated by means of very poorly constructed furnaces which give very unsatisfactory results, there being practically no air in circulation in the working places. A fair quality of oil was being used for illuminating purposes. No rules posted; stretchers and blankets not on hand. A letter was addressed to the superintendent calling his attention to the defective system of ventilation, with the request that this matter be given his immediate attention and the mine placed in condition to comply with the State mine law.

F. R. CLARK, Superintendent.

GUSS MEANS and GEORGE TACKETT, Mine Bosses.

PERSINGER COAL COMPANY.

No. 164. *Persinger Mine*.—This mine is located on Cabin Creek. It was opened in 1904 and during last year a tippie and incline were partly constructed. No side tracks to the mine have been laid and, therefore, no coal has been shipped. For this reason no inspection was made.

HOLLY COAL COMPANY.

No. 165. *Holly Mine*.—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is good. Drainage only moderate. Ventilation is produced by a poorly constructed

furnace which does not furnish sufficient air for the proper ventilation of the mine. The superintendent's attention was called to the deficiency in ventilation with the request that the mine be put in condition to comply with the State mine law. A fair quality of oil was used for illuminating purposes. Rules are not posted at the mine nor are stretchers and blankets kept on hand.

J. C. GILMOUR, Superintendent.

JAMES TURNER and W. T. GOSNAY, Mine Bosses.

QUARRIER COAL COMPANY.

No. 166. *Quarrier Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from four to five and a half feet. The roof is good. Drainage moderate. Ventilation is by natural causes, which give very poor results. Breakthroughs between rooms are badly neglected, as several rooms are driven beyond the proper distance. With this exception, the general conditions are very good. The superintendent's attention was called to the defective system of ventilation with the request that the mine be placed in condition to comply with the State mine law, without unnecessary delay. No rules posted; stretchers and blankets not on hand.

A. P. SHEARER, Supt.

JAMES MATHEWS, Mine Boss.

RED WARRIOR COAL COMPANY.

No. 167. *Red Warrior Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has an average thickness of five and a half feet. The roof is fairly good and the mine is properly timbered. Drainage moderate only. There are several openings to this mine, each of which is ventilated by a temporary furnace, which gives fair results when the furnaces are properly attended. Rules are not posted at the mine, nor stretchers and blankets kept on hand. During the year a modern tippie was constructed at this mine and a compressed air plant installed. The principal part of the coal is mined by punching machines, which have proven very satisfactory to the management.

C. H. MEAD, Superintendent.

C. L. PETTY, Mine Boss.

CHEROKEE COAL COMPANY.

No. 168. *Cherokee Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from four to five feet. The roof is fairly good and the mine properly timbered. Drainage moderate. There are three openings to this mine, all of which are connected and ventilated by means of a fan with results that are satisfactory in No. 1 and No. 2 openings, but somewhat deficient in No. 3 because of neglect to have mine doors and stoppings properly constructed. The general safety of all entries and rooms is good.

JOHN GILMOUR, Superintendent.

H. E. SIMMONS, Mine Boss.

WAKE FOREST MINING COMPANY.

No. 169. *Wake Forest Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof

is very good and the mine properly timbered. Drainage moderate. Ventilation is produced by means of a fan which gives good results. Crosscuts are regularly driven and mine doors and stoppings in good condition. General safety of all entries and rooms is good. Oil used for illuminating purposes is of fair quality. Rules are posted and stretchers and blankets kept on hand.

J. C. GRYMES, Superintendent.

JESSE GARDNER, Mine Boss.

HOLLY AND STEPHENSON COAL AND COKE COMPANY.

Nos. 170 and 171. *Leewood Mines Nos. 1 and 2.*—These mines are located on Cabin Creek and were formerly operated by the Leewood Colliery Company. They were placed in the hands of a receiver and have been idle during the past year. They were recently purchased by the above named company and preparations are being made to resume operation in the near future.

F. H. McCLUNG, Superintendent.

WILLIAM SHAMBLIN, Mine Boss.

M. T. DAVIS COAL COMPANY.

No. 172. *Davis Mine.*—This mine is located on Cabin Creek and operates the Lewiston Seam, which varies in thickness from four to five feet. The roof is slate and good. Drainage moderate. Ventilation is produced by temporary furnaces which give sufficient air for the present developments. The superintendent gave the assurance that a fan would be installed in the near future. The general safety of all entries and rooms is good. Oil used for illuminating purposes is of a fair quality. Stretchers are kept on hand, but no rules are posted.

M. W. MURPHY, Superintendent.

ROBERT THOMPSON, Mine Boss.

CALEDONIAN COAL AND COKE COMPANY.

No. 173. *Caledonia Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is only fairly good. Drainage moderate. There are three openings to this mine, each of which is ventilated by a temporary furnace which gives sufficient air for the number of men employed. During the past year but little was done toward development of this mine. An electric plant was recently completed and mining machines installed, but at present very few men are employed. Oil used for illuminating purposes is of a fair quality. Rules are posted and stretchers and blankets kept on hand.

W. R. KAY, Supt.

E. B. SUMMERS and J. C. EASTHAM, Mine Bosses.

THISTLE COAL COMPANY.

No. 174. *Thistle Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is good; drainage moderate. A ten-foot Thayer fan has recently been installed which gives good results. Crosscuts are regularly driven, mine doors and stoppings in fair condition and the general safety of all entries and rooms is good. There was a small accumulation of dust on some of the haulways, but this was being removed and preparations being made to sprinkle the dusty sections. Several of the miners were found to have full kegs of powder in the mine. These were ordered to be removed at once

and the order was immediately complied with. A fair quality of oil was used for illuminating purposes. Rules are posted and stretchers and blankets kept on hand.

THOMAS A. KAY, Superintendent.

JOHN W. EASTHAM, Mine Boss.

LA MONT MINING COMPANY.

Nos. 175 and 176. *La Mont Mines Nos. 1 and 2.*—These mines are located on Cane Fork of Cabin Creek and operate the No. 1 or Eagle Seam, which varies in thickness from three and a half to four feet. The roof is very good. Drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by a furnace, but the air was inadequate in the working places, this being due to neglect to make breakthroughs at the proper distances. Mine doors and stoppings are in fair condition. Mine No. 2 has been idle a large portion of the year, but preparations were being made to resume operation in the near future. A fair quality of oil was used for illuminating purposes. Stretchers are kept on hand but no rules are posted.

PAUL L. JAMES, Supt.

LOGAN LINVILLE, Mine Boss.

No. 177. *La Mont Mine No. 3.*—This mine is located on Cane Fork of Cabin Creek and operates the Coalburg Seam, which has a thickness of six feet. The roof is slate and in some sections is bad, and has to be carefully timbered to insure safety. The miners are well supplied with timber and the mine is properly timbered. Drainage moderate. Ventilation is by natural causes which do not give sufficient air for the proper ventilation of the mine. At the time of the last inspection, preparations were being made to construct temporary furnaces, which will be an improvement on the present system of ventilation. This is a new mine opened during the year and as yet no system of rules has been adopted.

PAUL L. JAMES, Supt.

WILLIAM HARDY, Mine Boss.

CARBON COAL COMPANY.

No. 178. *South Carbon Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from five to six feet. The roof is good and the mine is properly timbered. General safety of all entries and rooms good. There are several openings at this mine, each of which is ventilated by a seven-foot fan, and the ventilation was found to be generally good throughout the mine. Mine doors and stoppings in fair condition and haulways kept clean, with ample room for workmen to pass the cars. A fair quality of oil is used for illuminating purposes. Stretchers and blankets are kept on hand and rules posted.

FRANK HOMAN, Supt.

LEE JENKINS, Mine Boss.

No. 179. *North Carbon Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from five to six feet. The roof is good; drainage moderate. The general safety of all entries is good. Ventilation is produced by means of a fan and the mine is properly ventilated. Mine doors and stoppings are in good condition. Stretchers and blankets are kept on hand and rules posted.

K. D. QUARRIER, Supt.

J. T. BALDWIN, Mine Boss.

REPUBLIC COAL COMPANY.

No. 180. *No. 1 Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from four and a half to six feet. The roof is good and the mine is properly timbered. General safety of all entries and rooms is good. Only a small quantity of water is generated in this mine. Drainage moderate. Ventilation is produced by a fan which furnishes sufficient air and this is properly distributed throughout the mine. Mine doors and stoppings are in good repair. Crosscuts are regularly driven and haulways are in first class condition. Stretcher and blankets are kept on hand and rules are posted.

FRANK HOMAN, Superintendent.

OWEN MEADOWS, Mine Boss.

No. 181. *Republic Mine No. 2.*—This mine is a new mine located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. The roof is good and the mine properly timbered and practically dry. Ventilation is produced by a seven-foot fan which gives satisfactory results throughout the mine. Mine doors and stoppings are in good condition. The general safety of all entries and rooms is good. Oil used for illuminating purposes is of a fair quality. Stretchers and blankets are kept on hand and rules posted.

FRANK HOMAN, Supt.

WILLIAM NICHOLSON, Mine Boss.

WEST VIRGINIA COLLIERY COMPANY.

No. 182. *Mine No. 1.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from five to six feet. The roof is good and drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by a ten foot fan which furnishes sufficient air, and this is properly distributed throughout the mine. Mine doors and stoppings are in good repair and haulways in good condition. A fair quality of oil is used for illuminating purposes and stretchers and blankets are kept on hand. Rules are posted at the mine.

JOHN HOLMES, Supt.

GEORGE BUCKLEY, Mine Boss.

No. 183. *Mine No. 2.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is slate and only fairly good, and needs careful attention to keep the haulways in safe condition. Drainage generally good. Ventilation is by natural causes and very poor in some sections. It was found that the breakthroughs were not properly closed as the headings advance and that mine doors had not been constructed where needed. The superintendent's attention was called to the defective system of ventilation with the request that the same be remedied. Stretcher and blankets are kept on hand and rules posted at the mine.

JOHN HOLMES, Supt.

D. F. WORKMAN, Mine Boss.

RACCOON FORK COAL COMPANY.

No. 184. *Raccoon Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which varies in thickness from four and a half to six feet. The roof is good; drainage generally good. Ventilation is produced by a ten-foot Thayer fan which gives very satisfactory results. Mine doors and stoppings in good repair and the general safety of all

entries and rooms is good. Rules are posted and stretcher and blankets are kept on hand.

THOMAS A. KAY, Superintendent.

WILLIAM YOUNG and JOHN RHODES, Mine Bosses.

UNITED COLLIERY COMPANY.

No. 185. *United Gas Mine.*—This mine is located on Cabin Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is slate and in some sections is very dangerous. The miners are well supplied with timber and the mine is properly timbered. The haulways are given close attention and all dangerous slate is taken down or carefully timbered. The general conditions in regard to safety were found to be very good. Drainage only moderate. A fan is used for ventilating purposes, which furnishes a good volume of air and this is properly distributed throughout the mine. Stretcher and blankets are kept on hand and rules posted at the mine.

F. N. MOORE, Superintendent.

D. S. HOLMES, Mine Boss.

CABIN CREEK MINING COMPANY.

Nos. 186 and 187. *Kayford Mines Nos. 1 and 2.*—These mines are located on Cabin Creek and operate the No. 2 Gas Seam, which varies in thickness from five to six and a half feet. The roof is very good. Drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by a ten-foot Thayer fan, installed at the No. 1 mine, and gives fairly good results. But owing to the rapid development of these mines it will be necessary to install an additional fan at the No. 2 mine in the near future. Mine doors and stoppings in good repair and haulways in first-class condition. In some sections of Mine No. 1 there is an accumulation of dust, but at the time of last inspection it was found to be properly sprinkled. Blankets and stretcher are kept on hand and rules are posted at the mine.

The product of these mines is being handled over the tippie at Mine No. 1, but a new and up-to-date tippie is under construction at Mine No. 2.

THOMAS A. KAY, Superintendent.

GEORGE EASTHAM, Mine Boss.

ROBINSON COAL COMPANY.

No. 188. *Klondike Mine.*—This mine is located at Coalburg on the Chesapeake and Ohio Railway and operates the Cedar Grove Seam, which has a thickness of thirty-six inches. The roof is good; drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by means of a small furnace which furnishes sufficient air for the small number of men employed at this mine. Oil used for illuminating purposes is of a fair quality. Stretcher and blankets are kept on hand, but no rules are posted.

A. M. WOOLDREDGE, Supt.

JAMES MURRAY, Mine Boss.

No. 189. *Robinson Mine No. 5.*—This mine is located at Coalburg and operates the Coalburg Seam, which varies in thickness from four and a half to five and a half feet. The roof is slate and in some sections very bad, especially on the entries, where it is usually taken down, averaging

in thickness from two to three feet. Careful attention is given to the haulways and the rooms are well timbered. Drainage in this mine is not of the best, owing to the local dips and the large amount of water generated. Ventilation is produced by a small furnace, which gives only fair results, as several places were found where the air was very deficient. The superintendent's attention was called to this condition and he was advised to construct a larger furnace. A stretcher was kept on hand but no rules were posted.

A. M. WOOLDREDGE, Supt.

JAMES MURRAY, Mine Boss.

PINE GROVE COAL COMPANY.

No. 190. *Pine Grove Mine.*—This mine is located on Cabin Creek and operates the Peerless Seam, which has a thickness of three and a half feet. The roof is good. Drainage bad. This mine was abandoned during the early part of the year and the track taken from the mine. The probabilities are that it will not resume operation at any time in the near future.

JOHN PEACOCK, Superintendent and Mine Boss.

SHENANDOAH COAL AND COKE COMPANY.

No. 191. *East Bank Mine.*—This mine is located at East Bank and operates the Cedar Grove Seam, which has a thickness of from thirty-six to forty inches. The roof is good. Drainage moderate. Ventilation is produced by means of a ten-foot fan which gives very poor results, this being due to the intake airway being practically closed by reason of a squeeze which was caused by not leaving sufficient pillars to protect the airway. No rules posted; stretchers and blankets not on hand. At the time of last inspection I was informed that this mine would be closed down indefinitely.

HENRY STEPHENSON, Superintendent and Mine Boss.

BELMONT COAL COMPANY.

No. 192. *Coalburg Mine.*—This mine is located at Crown Hill and operates the Coalburg Seam, which has a thickness of five feet. The roof is good and the general safety of all entries and rooms good. Ventilation is produced by means of a fan which gives only fair results, this being due to the defective condition of mine doors and stoppings and neglect to make breakthroughs between the rooms at proper distances. The mine generates but little water. Drainage moderate. The superintendent's attention was called to the above deficiencies and he gave assurance that the same would receive proper attention. A fair quality of oil was being used for illuminating purposes. Stretchers and blankets are kept on hand and rules posted.

J. R. MORRISON, Superintendent.

JOHN FILBIN and ANDREW KIRBY, Mine Bosses.

No. 193. *Lewiston Mine.*—This mine is located near Crown Hill and operates the Lewiston Seam, which varies in thickness from three and a half to four and a half feet. The roof is slate and only fairly good. Drainage moderate. Ventilation is produced by means of a fan with fair results.

The principal work at this mine is the drawing of pillars and in a short time the mine will be worked out.

J. R. MORRISON, Superintendent.

JOHN FILBIN and ANDREW KIRBY, Mine Bosses.

No. 194. *Belmont Mine No. 3.*—This mine is located at Crown Hill and operates the Coalburg Seam, which has a thickness of six feet. The roof is fairly good; drainage moderate only. General safety of all entries and rooms is good. Crosscuts are regularly driven, and mine doors and stoppings in good repair. A fair quality of oil is used for illuminating purposes. A seven-foot Thayer fan was recently installed at this mine, which gives good results.

J. R. MORRISON, Supt.

JOHN FILBIN, Mine Boss.

EQUITABLE COAL COMPANY.

No. 195. *Coalburg Mine.*—This mine is located at Crown Hill and operates the Coalburg Seam, which has a thickness of five feet. The roof is good and drainage good. The general safety of all entries and rooms is good. Crosscuts are regularly driven, mine doors and stoppings in good condition and the mine is properly timbered. Ventilation is produced by means of a seven-foot Thayer fan, which gives satisfactory results throughout the mine. A fair quality of oil is used for illuminating purposes. Stretchers are kept on hand and rules posted at the mine.

J. M. ROAN, JR., Supt.

E. L. BREWER, Mine Boss.

No. 196. *Kanawha Mine.*—This mine is located at Crown Hill and operates the Kanawha Seam, which varies in thickness from three and a half to four and a half feet. The roof is slate and generally good, and the mine is properly timbered. General safety of all entries and rooms is good. Ventilation is produced by means of an eight-foot Thayer fan with only fair results as in some sections of the mine the air was found to be somewhat deficient. The superintendent's attention was called to this deficiency and he gave assurance that the same would be remedied without delay. This mine generates a very small amount of water. Drainage generally good. Stretchers are kept on hand and rules are posted at the mine.

J. M. ROAN, JR., Supt.

E. L. BREWER, Mine Boss.

PAWNEE COAL COMPANY.

No. 197. *Lewiston (Black Cat) Mine.*—This mine is located near Crown Hill and operates the Lewiston Seam, which varies in thickness from three and a half to four and a half feet. The roof is good; drainage moderate. General safety of all entries and rooms is good. Ventilation is produced by means of a fan which gives only fair results. During the year mine doors and stoppings have been repaired and the condition as regards ventilation somewhat improved. A fair quality of oil is used for illuminating purposes. Stretcher was kept on hand, but no rules were posted at the mine.

W. E. DIAL, Superintendent.

DAN. HUDNALL, Mine Boss.

No. 198. *Coalburg (Black Cat) Mine.*—This mine is located near Crown Hill and operates the Coalburg Seam, which has an average thickness of five and a half feet. The roof is slate and generally bad and must be given

careful attention and properly timbered to insure safety. The mine generates a great deal of water and the system of drainage is very poor. Ventilation is produced by means of a fan, but no measurement of the air was taken as the mine was idle at the time of inspection and the fan was not in operation. During the year very little has been done toward developing this mine. It was visited twice and on both occasions was found to be idle. A stretcher was kept on hand but no rules posted.

W. E. DIAL, Superintendent.

DAN HUDNALL, Mine Boss.

SCRANTON SPLINT COAL COMPANY.

No. 199. *Scranton Mine*.—This mine is located on Paint Creek and operates the Coalburg Seam, which varies in thickness from four and a half to six feet. The roof is good and the mine is properly timbered, and the general safety of all entries and rooms is good. Drainage moderate. Ventilation is produced by a sixteen-foot Crawford & McCrimmon fan. Cross-cuts are regularly driven, mine doors and stoppings kept in good condition, and the ventilation is generally good throughout the mine. Oil used for illuminating purposes is of a fair quality. Stretchers and blankets are kept on hand and rules posted at the mine.

W. W. MUCKLOW, Supt.

JOHN COX, Mine Boss.

PAINT CREEK COAL COMPANY.

No. 200. *Paint Creek Mine*.—This mine is located on Paint Creek and operates the Coalburg Seam which varies in thickness from six to seven feet. The roof is slate and in some parts of the mine is very good, while in other sections the draw slate varies in thickness from six to twenty-two inches and has to be taken down or carefully timbered to insure safety. The miners are well supplied with timber and the mine is properly timbered. Drainage, fairly good. Ventilation is produced by means of a ten-foot Thayer fan which gives satisfactory results. Cross-cuts are regularly driven and mine doors and stoppings are in good condition and the ventilation is generally good throughout the mine. A fair quality of oil is used for illuminating purposes, a stretcher kept on hand and rules posted at the mine.

W. W. MUCKLOW, Supt.

THOMAS BURKE, Mine Boss.

STANDARD SPLINT AND GAS COAL COMPANY.

No. 201. *Standard Mine*.—This mine is located on Paint Creek and operates the Coalburg Seam, which varies in thickness from six to seven and a half feet. The roof is good. Drainage moderate. There are several openings to this mine, each of which is ventilated by a temporary furnace which gives fair results. The general safety of all entries and rooms is good. Mine doors and stoppings in fair condition. Entries are being driven to connect the several openings when a fan will be installed. A fair quality of oil is used for illuminating purposes. Stretchers and blankets are kept on hand, but no rules are posted at the mine.

J. A. STRAUGHAN, Supt.

EDWARD FORBES, Mine Boss.

GROSE COLLIERY COMPANY.

No. 202. *Grose Mine.*—This mine is located on Paint Creek and operates the No. 1, or Eagle Seam, which varies in thickness from three and a half to five and a half feet. The roof is good. The general safety of all entries and rooms is good. Ventilation is by means of a furnace which gives very poor results, this being due to the poor construction of mine doors and stoppings which are principally made of canvas cloth and have proven very unsatisfactory. The superintendent's attention was called to the deficiency in ventilation and improperly constructed mine doors and stoppings. He gave the assurance that immediate steps would be taken to place this mine in condition to comply with the State Mine Law. Rules are not posted at the mine, nor stretchers nor blankets kept on hand.

T. C. McVEY, Supt.

J. C. GRISSINGER, Mine Boss.

IMPERIAL COLLIERY COMPANY.

No. 203. *Imperial Mine No. 1.*—This mine is located on Paint Creek and operates the No. 1, or Eagle Seam, which varies in thickness from four and a half to five and a half feet. The roof is slate and in some sections is bad, having a draw slate from eight to fourteen inches in thickness which has to be taken down or properly timbered to insure safety. The miners are well supplied with timber and the mine is properly timbered. Since punching machines were installed in this mine, it has been noticed that in sections where they are used the condition of the roof has been greatly improved. A small quantity of water is generated in this mine—drainage only moderate. Ventilation is produced by an eight-foot Thayer fan, which gives good results when mine doors and stoppings are kept in proper condition. Oil used for illuminating purposes is of a fair quality. Rules are posted at the mine and stretchers and blankets kept on hand.

LEE LONG, Supt.

THOMAS SECRIST, Mine Boss.

No. 204. *Imperial Mine No. 2.*—This mine is located on Paint Creek and operates the No. 1, or Eagle Seam, which has a thickness of three and a half to four feet of clean coal. There is a draw slate from ten to twelve inches in thickness which has to be taken down, leaving an excellent roof. The mine is well timbered and the general safety of all entries and rooms is good. Drainage only moderate. Mine doors and stoppings in fair condition. Ventilation is produced by a seven-foot Thayer fan and is generally good throughout the mine. Denciciencies are: No rules posted, no stretchers nor blankets kept on hand.

LEE LONG, Supt.

W. A. OTEY, Mine Boss.

GREENBRIER COAL COMPANY.

No. 205. *Greenbrier Mine No. 2.*—This mine is located on Paint Creek and operates the No. 2 Gas Seam, which has a thickness of four to five feet. The roof is good and the mine properly timbered. The general safety of all entries and rooms is good. Ventilation is produced by means of a furnace, which gives fair results only. Mine doors and stoppings in fair condition, drainage moderate. A fair quality of oil is used for illuminating

purposes. Deficiencies are: No rules posted, and no stretchers or blankets kept on hand.

A. C. MASTERS, Supt.

W. H. VAUGHAN, Mine Boss.

No. 206. *Greenbrier No. 3 or Masters Mine.*—This mine is located on Paint Creek and operates the Winifrede Seam, which has a thickness of six feet. The roof is good. Drainage moderate. A temporary furnace has recently been constructed which furnishes a fairly good system of ventilation when mine doors and stoppings are kept in proper condition. A fair quality of oil is used for illuminating purposes. Deficiencies are: Rules not posted and stretchers and blankets not kept on hand.

A. C. MASTERS, Supt.

E. F. BERRY, Mine Boss.

WACOMAH COAL COMPANY.

No. 207. *Wacomah or Coalburg Mine.*—This mine is located on Paint Creek and operates the Coalburg Seam which varies in thickness from five to six and a half feet. The roof is good. Drainage only moderate. The general safety of all entries and rooms is good. There are three openings at this mine: No. 1 opening is ventilated by a permanent furnace with fair results. No. 2 and No. 3 openings are ventilated by temporary furnaces with results that are not altogether satisfactory, but in a very short time the three openings will be connected which will give a better system of ventilation. Deficiencies at this mine are: Rules not posted and stretchers and blankets not kept on hand.

J. A. WOOD, Supt.

EDWARD HOPE, Mine Boss.

DETROIT AND KANAWHA COAL COMPANY.

No. 208. *Detroit Mine No. 1.*—This mine is located on Paint Creek and operates the No. 1, or Eagle Seam, which has a thickness of three to four feet. The roof is good; drainage moderate. The general safety of all entries and rooms is good. An eight-foot Thayer fan has recently been installed, which gives good results. Mine doors and stoppings in fair condition. Ventilation generally good throughout the mine. Oil used for illuminating purposes is of a fair quality. The deficiencies at this mine are, rules not posted, and stretchers and blankets not kept on hand.

J. E. MINER, Superintendent.

FLOYD DILLON and R. F. TOWNSEND, Mine Bosses.

No. 209. *Detroit Mine No. 2.*—This mine is located on Paint Creek and operates the No. 2 Gas Seam, which has a thickness of four and a half feet. The roof is good. The general safety of all entries and rooms is good. Ventilation is produced by a temporary furnace which gives sufficient air for the number of men employed. As yet the developments are small and the mine generates but very little water.

J. E. MINER, Superintendent.

FLOYD DILLON, Mine Boss.

MORTON COAL COMPANY.

No. 210. *Morton No. 1 Mine.*—This mine is located on Paint Creek and operates the No. 1 or Eagle Seam, which varies in thickness from three to four feet. The roof is good and the general safety of all entries and rooms is good. Mine doors and stoppings are in fair condition. There are several

openings to this mine, each of which is ventilated by a furnace, which furnish a fair system of ventilation when the furnaces are properly fired. Drainage generally good. During the year a compressed air plant was constructed and punching machines installed in the mine. Practically all of the coal is mined by this system, which has proven very satisfactory to the company.

No. 211. *Morton No. 2 Mine.*—In addition to the above mine the company is making a new opening into the No. 2 Gas Seam.

QUIN MORTON, Superintendent. CLAYTON CRICKMER, Mine Boss.

NUCKOLLS COAL & COKE COMPANY.

No. 212. *Nuckolls Mine.*—This mine is located on Paint Creek and operates the No. 2 Gas Seam, which has a thickness of four and a half feet. The roof is good and the general safety of all entries and rooms is good. Drainage moderate. There are four openings to this mine, each of which is ventilated by a temporary furnace, which gives sufficient air for the number of men employed when the furnaces are properly fired. Crosscuts are regularly driven and the mine doors and stoppings are in fair condition. The deficiencies at this mine are, no rules posted and no stretchers and blankets kept on hand.

A. D. HARRAH, Supt. C. C. COMER and A. J. PRICE, Mine Bosses.

BANNER COAL COMPANY.

No. 213. *Banner Coalburg Mine.*—This mine is located on Paint Creek and operates the Coalburg Seam, which varies in thickness from five to seven feet. The roof is sandstone and good except some sections where there is a draw slate from four to fifteen inches in thickness, which has to be taken down to insure safety. The mine generates but little water. Drainage moderate. Crosscuts are regularly driven and mine doors and stoppings in good repair. Ventilation is produced by temporary furnaces, which give fair results for the present development, but owing to the excessive use of powder in blasting the coal from the solid it will be but a short time until a more adequate system of ventilation is required for the proper ventilation of this mine. A fair quality of oil was used for illuminating purposes. Deficiencies are, no rules posted at the mine, and no stretchers and blankets on hand.

W. W. MUCKLOW, Superintendent. D. L. WATERS, Mine Boss.

No. 214. *Banner No. 2 or Crown Hill Mine.*—This is a new mine located on Paint Creek and worked in connection with the Banner Mine No. 1, the production of both mines being handled over one tippie. The Lewiston Seam is operated and has an average thickness of six feet. The roof is slate and generally good. Drainage moderate. The mine is developed on the double entry system and ventilated by natural causes with fair results as the developments are small.

W. W. MUCKLOW, Superintendent. D. L. WATERS, Mine Boss.

CHESAPEAKE MINING COMPANY.

No. 215. *Chesapeake No. 1 Mine.*—This mine is located near Handley and operates the Kanawha Seam, which has a thickness of four and a half

to five feet. The roof is good with the exception of some sections where the draw slate varies in thickness from four to twelve inches and must be properly timbered or taken down to insure safety. The miners are well supplied with timber and the mine is properly timbered. In some sections the haulways are not kept clear of side obstructions, in which places it is difficult for workmen to pass the cars. Drainage moderate. Ventilation is produced by a ten-foot Thayer fan, which gives sufficient ventilation when the mine doors and stoppings are kept in proper condition. A fair quality of oil is used for illuminating purposes. Stretchers are kept on hand but no rules are posted at the mine.

J. B. LEWIS, Gen. Mgr.

J. H. CARTER, Superintendent.

ALEX THOMPSON, Mine Boss.

No. 216. *Chesapeake Mine No. 2.*—This is a new mine opened during the year and located on Upper Creek near Handley. It operates the No. 2 Gas Seam, which has a thickness of four feet. The roof is good and the mine is properly timbered, and the general safety of all entries and rooms is good. Drainage moderate. Mine doors and stoppings in fair condition. Ventilation is produced by an eight-foot Thayer fan, which gives good results and the air current is properly distributed throughout the mine. A tipple with appliances for coaling locomotives has been constructed near the C. & O. yards at Handley and part of the product of this mine is used for coaling the engines of the Chesapeake and Ohio Railway. As yet no rules are posted at the mine.

J. B. LEWIS, Gen. Mgr.

J. H. CARTER, Superintendent.

JOHN W. DEW and GEO. WALKER, Mine Bosses.

MONTGOMERY COAL COMPANY.

No. 217. *Kanawha Mine.*—This mine is located near Handley and operates the Kanawha Seam, which has a thickness of four and a half to five feet. The roof is generally good. Drainage only moderate. The general safety of all entries and rooms is good. This mine is ventilated by natural causes which give very unsatisfactory results. Mine doors and stoppings in fair condition. A letter was addressed to this company calling attention to the defective system of ventilation in this mine, with the request that a system of ventilation be installed that will comply with the State mine law. No rules are posted at the mine.

S. H. MONTGOMERY, Supt.

S. P. JOHNSON, Mine Boss.

BLACK BAND COAL & COKE CO.

No. 218. *Blank Band Mine No. 1.*—This mine, formerly operated by the Kanawha & Coal River Coal Co., is located on Davis Creek and operates the Black Band Seam, which varies in thickness from thirty to forty-eight inches. The roof is good; drainage good, and the general safety of all entries and rooms is good. Ventilation is produced by an eight-foot Thayer fan with good results. Mine doors and stoppings in fair condition and ventilation generally good throughout the mine. A fair quality of oil is used for illuminating purposes. Stretchers are kept on hand but no rules are posted at the mine. During the year this company has constructed an

expensive coal-washer, of the Jeffrey type, with a capacity of four hundred tons per day, which is modern in all its equipments and is proving very satisfactory.

F. H. PALMER, Superintendent.

GOWAN STOKES, Mine Boss.

No. 219. *Black Band Mine No. 2.*—This mine, formerly operated by the Kanawha & Coal River Coal Co., is located on Davis Creek and operates the Black Band Seam, which varies in thickness from thirty to forty-four inches. The roof is good; drainage moderate. The mine is properly timbered and the general safety of all entries and rooms is good. An eight-foot Thayer fan has recently been installed at this mine, which gives satisfactory results. Mine doors and stoppings in fair condition and ventilation is generally good throughout the mine. No rules are posted at the mine.

F. H. PALMER, Superintendent.

EDWARD SANFORD, Mine Boss.

No. 220. *Black Band Mine No. 3.*—This mine, formerly operated by the Kanawha & Coal River Coal Co., is located on Davis Creek and operates the Black Band Seam, which varies in thickness from thirty to forty-four inches. The roof is good and the mine properly timbered. The general safety of all entries and rooms is good. Drainage only moderate. During the year an eight-foot Thayer fan was installed at this mine. Mine doors and stoppings in fair condition, and ventilation generally good. A fair quality of oil is used for illuminating purposes. Deficiencies at this mine are, rules not posted, and stretchers and blankets not kept on hand.

F. H. PALMER, Superintendent.

EDWARD SANFORD, Mine Boss.

No. 221. *Carkins Mine.*—This mine, formerly operated by the Kanawha & Coal River Coal Co., is located at Carkins on the main line of the Chesapeake and Ohio Railway and operates the Peerless Seam, which varies in thickness from twenty-eight to thirty-six inches. It has been idle for the past eighteen months and nothing definite could be learned as to when it would resume operation, and for this reason no inspection was made.

F. H. PALMER, Superintendent.

COAL RIVER LUMBER AND COAL COMPANY.

No. 222. *Olcott or Black Band Mine.*—This is a new mine located on Briar Creek, a tributary of Coal River, and operates the Black Band Seam, which has a thickness of thirty-six to forty-four inches. The roof is good and the mine practically dry. Ventilation is produced by a temporary furnace which furnishes sufficient air for the present, as the mine has been in operation but a short time and the developments are small. The machinery is on the ground and preparations were being made to install a compressed air plant. As yet, no rules are posted or stretchers or blankets on hand.

W. T. ANDREWS, Supt.

EDWARD GRIFFITH, Mine Boss.

REYNOLDS BLACK BAND COAL COMPANY.

No. 223. *Reynolds Mine.*—This is a new mine located on Briar Creek, a tributary of Coal River, and operates the Black Band Seam, which has a thickness of three feet eight inches. The roof is good. Ventilation is produced by means of a furnace, which furnishes sufficient air for the

present developments, as the mine has been in operation but a short time. Machinery was on the ground and preparations were being made to install an electric plant and mining machines. As yet no rules are posted and no stretchers and blankets on hand.

H. F. HANKS, Superintendent.

WILL CLENDENIN and J. R. MUCKLOW, Mine Bosses.

KNICKERBOCKER COAL COMPANY.

No. 224. *Knickerbocker Mine.*—This is a new mine located on Briar Creek, a tributary of Coal River, and operates the Black Band Seam, which has a thickness of forty inches. The roof is sandstone and slate and generally good. The mine generates but a very small quantity of water. Ventilation is produced by means of a furnace, which gives very satisfactory results. This mine was but recently opened. A modern tippie has been completed and side tracks are being laid to the mine, and the company expects to be ready to begin shipments of coal by the last of August, 1905.

H. F. HANKS, Superintendent.

ROBERT MUCKLOW, Mine Boss.

AMERICAN COAL AND COKE COMPANY.

No. 225. *American Mine.*—This is a new mine located on Briar Creek, a tributary of Coal River, and operates the Black Band Seam, which varies in thickness from thirty-six to forty-three inches. The roof is sandstone and slate and generally good. The mine is practically dry. Ventilation is produced by means of a furnace, which furnishes sufficient air for the present developments, as this mine has been in operation but a few months. As yet no rules are posted or stretchers or blankets on hand.

WILLIAM BOWEN, Superintendent and Mine Boss.

MORRIS CREEK COAL CO.

No. 226. *Morris Creek Mine.*—This is a drift mine located on Morris Creek Branch of the C. & O. Ry., and on a tributary of the Great Kanawha River two miles south of Montgomery and twenty-seven miles east of Charleston. The developments are in the Kanawha or Winifrede Seam and as a general proposition are conducted on the double entry system. The ventilation is produced by a 10-ft. Crawford and McCrimmon fan, which gives very satisfactory results. The mine is moderately dry in some sections and makes very small amounts of water anywhere. The seam varies in thickness from $3\frac{1}{2}$ to 5 feet, including one band of black rock which varies in thickness from one to twelve inches. The roofing in some sections is sandrock and in other sections slate, varying in character, being very good and bad. The grades are very irregular. The hauling on all main roads is done by Jeffrey electric motors. The principal portion of the coal is mined by electric machines. The coal is of a splinty character and is usually screened and sold for domestic and manufacturing purposes. This mine was visited twice during the year and inspected, at which times all the various arrangements in connection with ventilation, drainage, general safety of all machinery, haulways and other provisions as

required by the mining laws were found in a satisfactory condition and apparently safe from every standpoint.

JOHN T. TODD, Gen. Mgr.

R. O. CLARK and J. D. THOMPSON, Mine Bosses.

LINCOLN COUNTY.

ROCHESTER COAL COMPANY.

No. 227. *Rochester Mine*.—This mine is located at Hadley on the Guyan Valley Railroad, and operates the Kanawha Seam, which has a thickness of six feet. The roof is good, drainage moderate. The general safety of all entries and rooms is good. Mine doors and stoppings in fair condition. Ventilation is produced by means of a furnace which gives fair results. This mine was idle a greater portion of the year and but very little has been done towards development. Deficiencies at this mine are, no rules posted, and no stretchers and blankets on hand.

P. H. GRELLE, Superintendent.

CHARLES ESTEP, Mine Boss.

GUYANDOTTE COAL COMPANY.

No. 228. *Guyandotte Mine*.—This mine is located at Hadley on the Guyan Valley Railroad. This mine was formerly operated by the Lincoln Coal Company, when it was known as Lincoln Mine, but since March 15, 1905, it has been operated by the Guyandotte Coal Company. The Kanawha Seam is operated at this point and has a thickness of six feet. The roof is fairly good and the mine properly timbered. Drainage moderate. Ventilation is produced by means of a furnace, which gives only fair results owing to the excessive use of blasting powder. This mine was idle the principal part of the year, but the present management was making preparations to operate the mine at its full capacity. The deficiencies at this mine are, no rules posted, and stretchers and blankets not on hand.

J. W. LOCKWOOD, Superintendent.

E. A. DEERING, Mine Boss.

MASON COUNTY.

HOPE SALT AND COAL COMPANY.

No. 229. *Hope Mine*.—This mine is located at Mason and operates the Pittsburg Seam, which varies in thickness from four and a half to five feet. The roof is generally good. This is an old mine which was reopened last year. A large body of water had accumulated in the old workings, which has been the source of a great deal of annoyance and expense in installing a steam pump and system of drainage. Crosscuts are regularly driven and mine doors and stoppings are in fair condition. The mine has been idle a part of the year and but little has been done toward development. Deficiencies at the mine are, no rules posted, nor stretchers nor blankets kept on hand.

D. C. DAVIS, Superintendent.

HARRY H. WILLIAMS, Mine Boss.

MASON CITY MINING COMPANY.

No. 230. *McDanial Mine*.—This mine is located near Mason and operates the Pittsburg Seam, which has a thickness of from four and a half to five

feet. The roof is good. Some sections of the mine generate a great deal of water. Drainage only moderate. Ventilation is produced by a small fan with fair results. A heading has recently been driven to the out-crop and will be used as an air-course and also for drainage, which will be a great improvement over the former system. This mine has only been operated at intervals during the year. The deficiencies are, no rules posted and no stretchers kept on hand.

G. H. GRESS, Superintendent.

W. L. HARRIS, Mine Boss.

LIVERPOOL SALT AND COAL COMPANY.

No. 231. *Jackson Furnace.*—This mine is located at Hartford and operates the Pittsburg Seam, which has a thickness of from four and a half to five feet. The roof is good; drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by a ten-foot fan which furnishes sufficient air for the proper ventilation of the mine when properly distributed. A fair quality of oil is used for illuminating purposes. The deficiencies at this mine are, no rules posted, no stretchers or blankets on hand.

H. F. SMITH, Superintendent.

SAMUEL EDWARDS, Mine Boss.

HARTFORD CITY SALT COMPANY.

No. 232. *Hartford Mine.*—This is a slope mine located at Hartford. It operates the Pittsburg Seam, which has a thickness of from four and a half to five feet. The roof is sandstone and slate and very good. The general safety of all entries and rooms is good. Drainage moderate. Crosscuts are regularly driven and the mine doors and stoppings in fair condition. Ventilation is produced by a ten-foot fan with satisfactory results. Deficiencies at this mine are, no rules posted, no stretchers nor blankets on hand.

WILLIAM H. NEWTON, Supt.

RICHARD JENKINS, Mine Boss.

CONSUMERS COAL AND MINING COMPANY.

No. 233. *Newcastle Mine.*—This mine is located near West Columbia and operates the Pittsburg Seam, which varies in thickness from three and a half to four and a half feet. In some sections the roof is good, while in others it is of an unsafe and dangerous nature and must be given careful attention and be properly timbered to insure safety. The miners are well supplied with timber and as a rule the mine is properly timbered. Some sections of the mine generate a great deal of water; drainage moderate. Crosscuts are regularly driven and mine doors and stoppings in fair condition. Ventilation is produced by means of a furnace, which gives good results when properly attended. A fair quality of oil is used for illuminating purposes. Stretchers and blankets are kept on hand, but rules are not posted. Electric mining machines have recently been installed at this mine, power for operating the machines being furnished by a plant located at the Camden Mine.

HARRY HART, Superintendent.

FRANK WRIGHT, Mine Boss.

No. 234. *Camden Mine.*—This mine is located at Spilman and operates the Pittsburg Seam, which varies in thickness from three and a half to

four and a half feet. The roof is good; drainage moderate. The general safety of all entries and rooms is good. Ventilation is produced by means of a temporary furnace, which furnishes sufficient air for the present developments. During the year a very complete electric plant has been constructed and preparation made to install mining machines and electric haulage. Stretchers and blankets are kept on hand but no rules are posted.

HARRY HART, Superintendent.

JAMES SMITH, Mine Boss.

HANGING ROCK COAL COMPANY.

No. 235. *Klondike Mine*.—This mine is located near Mason and operates the Pittsburg Seam, which has a thickness of from four and a half to five feet. The roof is good. The general safety of all entries and rooms is good. Crosscuts between rooms are neglected to some extent. Mine doors and stoppings in fair condition only. Ventilation is produced by means of a small furnace, which gives fair results when properly attended. Drainage moderate. A fair quality of oil is used for illuminating purposes. No rules are posted and no stretchers nor blankets kept on hand. A new tippie was under construction, which will be quite an improvement over the one now in use.

HOWARD ROBINSON, Superintendent.

WILLIAM ALLEN and ROBT. KNIGHT, Mine Bosses.

BEECH GROVE COAL COMPANY.

No. 236. *Beech Grove Mine*.—This mine is located near Mason and operates the Pittsburg Seam, which varies in thickness from four and a half to five feet. The roof is good and the general safety of all entries and rooms is good. Some sections of the mine generate a great deal of water. Drainage moderate. Crosscuts are regularly driven and mine doors and stoppings in fair condition. Ventilation is produced by means of a temporary furnace and the exhaust steam from an underground pump, which does not give sufficient ventilation to meet with the requirements of the mine law. This mine has been idle a large portion of the year and but recently resumed operation for the purpose of driving the main heading to the outcrop, which will greatly improve the system of ventilation and drainage. Rules are not posted at the mine nor stretchers nor blankets kept on hand.

JOSEPH ICENHOWER, Supt.

FRANK DALEY, Mine Boss.

THOMAS D. HARRIS COMPANY.

No. 237. *Harris Mine*.—This mine is located at Hartford and operates the Pittsburg Seam, which has a thickness of four and a half to five feet. The roof is good; drainage moderate. Ventilation is produced by a temporary furnace with fair results. This mine was visited twice during the year, but no reports of inspections were made as the mine has only been in operation at intervals and six was the greatest number of men employed at any one time. The product of the mine is principally used for local consumption.

THOMAS D. HARRIS, Superintendent.

JOHN HARRIS, Mine Boss.

PUTNAM COUNTY.

PLYMOUTH COAL AND MINING COMPANY.

No. 238. *Plymouth Mine*.—This mine is located at Plymouth and operates the Pittsburgh Seam, which varies in thickness from five to six feet. The roof is slate and as a rule is of an uncertain and dangerous nature and has to be given careful attention and properly timbered to insure safety. The miners are well supplied with timber and, as a rule, the working places are well timbered. In some sections the haulways are not kept clear of side obstructions, in which places it is difficult for the workmen to pass the cars. Drainage moderate. Ventilation is produced by a twelve-foot fan, which gives sufficient air for the proper ventilation of the mine when properly distributed which is not always the case, as at the main headings the air was found to be very deficient, this being partly due to the improper construction of mine doors in an effort to construct doors which would not need an attendant. Oil used is of a fair quality. Stretchers are on hand but no rules posted at the mine.

W. C. MITCHELL, Superintendent.

JOSEPH VIRGIN, Mine Boss.

No. 239. *Manilla Mine*.—This mine is located on the Fork of Poca River. It is worked in connection with the Plymouth Mine and operates the Pittsburgh Seam, which has a thickness of from five to six feet. The roof is slate and is of an uncertain and dangerous nature and has to be given careful attention and properly timbered to insure safety. The miners are well supplied with timber and, as a rule, the working places are well timbered. Drainage moderate. Haulways in fair condition. Mine doors and stoppings in good repair. Crosscuts are regularly driven. Ventilation is produced by a fifteen-foot Crawford and McCrimmon fan, which furnishes a large volume of air that is properly distributed throughout the mine. A fair quality of oil is used for illuminating purposes. Stretchers are on hand but no rules posted at the mine.

W. C. MITCHELL, Superintendent.

JOSEPH VIRGIN, Mine Boss.

THE OTTO MARMET COAL AND MINING COMPANY.

No. 240. *Pocatalico Mine*.—This mine is located at Raymond City and operates the Pittsburgh Seam, which varies in thickness from five to six feet. The roof is slate of an uncertain and dangerous nature, which has to be given careful attention and properly timbered to insure safety. The miners are well supplied with timber and, as a rule, the working places are well timbered. The mine is practically dry. Drainage good. Ventilation is produced by means of a furnace with only fair results. The principal work in this mine is the drawing of pillars, and the probabilities are that this mine will be worked out during the coming year. A fair quality of oil is used for illuminating purposes. Stretchers are kept on hand, but no rules are posted.

EDWARD SCHONEBAUM, Supt.

DAVID SANTROCK, Mine Boss.

No. 241. *Big Otto No. 1*.—This mine is located on Harmon's Creek and operates the Pittsburgh Seam, which varies in thickness from five to six feet. The roof is slate and only fairly good, as in some sections there is a draw slate from four to ten inches thick which has to be taken down or

carefully timbered to insure safety. The miners are well supplied with timber and, as a rule, the working places were well timbered. Drainage moderate. Haulways in fair condition. Crosscuts are regularly driven and the mine doors and stoppings are in good repair. Ventilation is produced by an eight-foot Thayer fan with satisfactory results. Oil used for illuminating purposes is of a fair quality. Stretchers are kept on hand, but no general rules are posted at the mine. During the year the company constructed a large steel tippie with all modern appliances at a cost of from twenty-five to thirty thousand dollars.

EDWARD SCHONEBAUM, Supt.

ANDREW UTT, Mine Boss.

No. 242. *Big Otto Mine No. 2.*—This mine is located on Harmon's Creek and worked in connection with Mine No. 1. It operates the Pittsburg Seam, which varies in thickness from five to six feet. The roof is slate and only fairly good as in some sections there is a draw slate from four to ten inches thick which has to be taken down or carefully timbered to insure safety. The miners are well supplied with timber, and, as a rule, the working places are properly timbered. Drainage moderate. Crosscuts are regularly driven; mine doors and stoppings in good repair, and haulways in good condition. There are two openings to this mine known as No. 2 and No. 3. No. 2 is ventilated by means of a furnace which gives very good results. No. 3 is ventilated by natural causes and the ventilation was found to be somewhat deficient. But a new fan was on the ground and the superintendent gave the assurance that this fan would be installed in the near future. A fair quality of oil was being used for illuminating purposes. Stretchers were kept on hand, but no rules posted at the mine.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Boss.

BLACK BETSEY COAL AND MINING COMPANY.

No. 243. *Black Betsey Mine.*—This mine is located near Black Betsey and operates the Pittsburg Seam, which varies in thickness from five to six feet. The roof is slate of an uncertain and dangerous nature, which requires careful attention and has to be well timbered to insure safety. The miners are well supplied with timber and as a rule, the working places were properly timbered. Haulways are in good condition. Crosscuts are regularly driven. Formerly this mine was ventilated by means of a furnace. Early in the year a fan was installed and for a time both fan and furnace were used with very good results. A few months ago the air-course to the furnace was practically closed by heavy falls of slate, due to a squeeze in the old workings, which also forced the water onto the haulways and air-course to the fan, causing the ventilation to be very deficient. The attention of Mr. Tyree, the general manager, was called to the bad condition of the mine in regard to ventilation and drainage and a force of men was immediately put to work for the purpose of providing a good system of ventilation and proper drainage. A fair quality of oil was used for illuminating purposes, rules posted, and stretchers on hand.

W. A. GOODSPEED and E. B. WARRALL, Superintendents.

GEORGE CARY and GEO. W. CAWLEY, Mine Bosses.

OAK FOREST COAL AND MINING COMPANY.

No. 244. *Oak Forest Mine.*—This mine is located at Oak Forest, three miles below Winfield. This is a slope mine and operates the Pittsburg Seam, which varies in thickness from three and a half to four feet. The roof is good and the general safety of all entries and rooms is good. Cross-cuts are regularly driven, mine doors and stoppings in fair condition, and drainage good. Ventilation is produced by a ten-foot fan with very satisfactory results. A fair quality of oil is used for illuminating purposes. The product of this mine is shipped by river exclusively. Rules are posted, but stretchers are not on hand as required by law.

D. L. THOMAS, Superintendent.

WILLIAM THOMAS, Mine Boss.

ALPHA COAL MINING COMPANY.

No. 245. *Alpha Mine.*—This mine is located near Plymouth and operates the Pittsburg Seam, which varies in thickness from five to six feet. It is developed on the double entry system. The roof is slate of a dangerous nature and has to be given careful attention and be properly timbered to insure safety. Developments at this mine were commenced during the latter part of 1904, but up to the present time no shipments of coal have been made. A large tippie has been completed and the railroad track laid to the mine, preparatory to shipping coal about July first.

ROBERT G. GILL, Superintendent.

JOHN POPE, Mine Boss.

THIRD DISTRICT.

GENERAL SUMMARY OF THE THIRD DISTRICT FOR THE
YEAR ENDING JUNE 30, 1905.

COUNTY.	EMPLOYES.										PRODUCTION.			
	No. of openings.	No. of men killed.	Inside.					Outside.			Grand total.	Coal (tons of 2400 lbs.)	Coke (tons of 2000 lbs.)	
			Pick miners.	Machine miners.	Machine run- ners & help- ers.	Laborers.	Total.	Laborers.	Coke workers.	Total.				
Fayette.....	160	71	5,451	1,415	363	2,458	9,687	1,329	649	1,978	11,665	6,738,343	430,163	
Nicholas....	7	55	76	18	26	175	31	31	206	51,524	.....	.....	.....
Raleigh	24	4	702	187	889	131	131	1,020	661,180
Totals ..	191	75	6,208	1,491	381	2,671	10,751	1,491	649	2,140	12,891	7,451,047	430,163

OFFICE OF THE THIRD DISTRICT MINE INSPECTOR,
Montgomery, W. Va., Sept. 23, 1905.

HON. JAMES W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

SIR—As required by law, it is my duty and a pleasure to respectfully submit to you my Eighth Annual Report of the Third Mining District of the State of West Virginia and for the year ending June 30th, 1905.

During the year the coal business has not been as active and encouraging in the Third District as it was in the preceding year, and especially so in the gas and splint coal sections of the field. The following mines have been idle the greater part of the year: Excelsior Mine, belonging to the Mt. Carbon Colliery Co., Ltd.; Digby Mine, belonging to the Great Kanawha Colliery Co., Ltd.; Gaymont Mine, of the Newcastle Coal Co.; Cliff Top Mine, of the Longdale Iron Co. The Central and Robins Mines have also been suspended several months during the latter part of the year. These suspensions have been brought about largely on account of the depression in the coal trade and the low prices which have prevailed. The coal seams in all those mines are thin, which makes the prepared coal costly and thereby creates a condition of affairs which renders it impossible to operate those mines in a satisfactory and profitable manner.

The No. 5 Splint Coal Mine, belonging to the Great Kanawha Colliery Co., Ltd., has been exhausted and abandoned during the year.

Very few improvements have been made compared with those of recent years and what few improvements that have been made are principally in the New River field. At the present time there are four new shaft mines being sunk, two on the Price Hill estate, and two on the Cranberry property in Raleigh County by the White Oak Fuel Co. Practically speaking, all future developments in this particular coal field will be shaft

mines. Several more are all ready projected and will commence operations in a short time, as the C. & O. Ry. and the Deepwater Ry. are both rapidly pushing their developments through Raleigh County at a point which is all underlaid with the New River Seams in good condition, which has been assured by the operations of the core drills over a large area of territory. The Sewell Seam is exposed immediately in the suburbs of the Town of Beckley and takes a dip as a general proposition of about 82 feet to the mile in a northwesterly direction, and is found at depths varying from 100 to 500 feet between Beckley and Mount Hope and about the same depth leading over towards the headwaters of Paint Creek or probably in some sections of the last named territory a little more. The seam in the various test holes which have been put down in this territory has been found ranging in thickness from four to five feet and where tested was free from any partings or other impurities. The number and character of the mines in this district are practically the same as was reported in last year's report,—that is, 7 operations in the No. 1 Gas or Eagle Seam; 37 in the No. 2 Gas Seam; 3 in the Winifrede Seam; 11 in the Coalburg Seam; 63 in the Sewell Seam, and 35 in the Fire Creek or Quinnimont Seam. The principal improvements made during the year have been the installing of electric plants, new fans and other mechanical appliances at a few of the larger mines. In my last annual report there were 37 electric plants in the district. During the year the following companies have installed plants at their mines: The Cardiff Coal Co., one plant at Diamond and one at Elk Ridge; Loup Creek Colliery Co., plant at Page; Harvey C. & C. Co., one at Bissell; White Oak Fuel Co., one at Scarbro and one at Carlisle; McKell C. & C. Co., one at Derryhale and one at Kilsyth Mine; The New River Smokeless Coal Co., one at Lanark; and Beckley C. & C. Co., at Beckley Mine. New and powerful Capell fans have been recently installed at the Star Mine, Wingrove Shaft Mine, Kilsyth Mine and Scarbro Shaft Mine, and smaller fans for temporary service have been installed at Parral and Stuart Shaft Mines. Permanent 800 H. P. hoisting engines, boilers, etc., have also been installed, completed and put into operation at the above named shafts during the year. As stated in previous reports, mining coal by machinery in this district makes very little, if any, progress; there being about the same number of each type of machine in use as there was one year ago. The conditions for this character of mining are very unfavorable on account of irregular thickness of seams, nature of roof, etc., and particularly so in the New River regions where the bulk of the mines in this district are located.

During the year I have made 300 visits to the mines for inspection and other purposes, and as a general proposition I have found at all mines, when inspected, reasonably satisfactory conditions existing in the mine appointments with regard to the general safety of the workmen employed in the various branches of work at which they are employed, but in many instances the mines where the single entry system is still in practice I find many undesirable conditions of temporary and local character existing in connection with the ventilation arrangements which could be entirely avoided by use of the double entry system and I might here say in my opinion the double entry system should become a State law and be

rigidly enforced at all points where entries have to be driven any distance exceeding from one to two hundred feet. It is also my opinion that no hardships would be imposed if fan power for ventilation purposes in all mines should become a State law, unless otherwise allowed by the Chief Mine Inspector of the State. Section 10 of the State Mining Laws says, in part, that it shall be unlawful to use any other power for ventilating purposes except fan power, or the equal thereof, in mines generating explosive gas. What power, the equal thereof, refers to has always been somewhat of a clouded problem. To mining men of experience it is a well known fact that furnaces in mines generating explosive gas have been considered a source of danger for some time, and are seldom, if ever, adopted by owners and managers of gaseous mines of an extensive and valuable character, which, by the way, are usually shaft mines. It is also a well known fact that furnaces are very unreliable sources of ventilating power in drift mines in mountain districts on account of the different levels existing at the different openings. If the furnace is located to give fairly good results at one season of the year it is in the wrong place to give satisfaction at other periods of the year, and if properly attended, which is not always the case, it costs much more than fan power to run it. It is also a fact demonstrated by actual choice without any State laws that more than two-thirds of all owners and managers have installed fans on their mining properties, both in this and other states, as reference to the annual reports will conclusively prove, and from practical observation. I am thoroughly convinced that it is only from a standpoint of supposed economy that those operators who run their mines with small makeshift furnaces do so, when in reality it is costing them more than if they installed a good fan. If the first cost of installing a fan could be done as cheaply as a great many of the makeshift furnaces I am satisfied there would not be a mine in the country without a fan, and why one mine operator should be compelled to put in suitable machinery for ventilation purposes, a requirement essential in all mines, and other operators exempt, in my opinion, is unfair to the operator and unjust to the miner and other underground workmen, when it is a well known fact that the product of those mines are all subject to the same competition in the open markets of the country and have to pay the same wages for its production, and in many instances where shafts have to be sunk the first cost of opening up is three or four times that of drift mines.

The old system of trap doors is also another source of annoyance and worry to all men who have any charge of an important character, and a source of serious danger to mines which regularly generate gases of an explosive character, and to all those who are employed in such mines. On special occasions during my rounds where boys are employed to attend those doors I have found them standing propped open and the boys riding around with the drivers or idly sitting by and neglecting their duty, and it is a well known fact to all men working in mines where this kind of door is in use and boys of immature age (and who have no conception of the importance of keeping those doors closed) are employed to attend them that, as a general proposition, they are open as much as they are closed. During school terms it is almost an impossibility to employ boys

enough in a mining community to attend the doors and there is no doubt that on many occasions the doors stand open almost all day. At the present, under the existing conditions of this description and taking into consideration the importance and magnitude of our mining operations and what we may reasonably expect them to be in the near future, the legislature would be justified in taking this matter up and exacting a law which would require, where doors are needed, the installation of some standard type of up-to-date automatic doors which has been thoroughly tested and proven to be substantial, quick and safe, and effective in its operation. This would not only be an immense benefit to the miners, but a great source of satisfaction to the management and, in my opinion, in the end be a satisfactory financial gain to the owners of all coal mines. Doors, to a large extent, may be dispensed with on main haulways by the erection of overcasts, but, in my opinion, and from a lengthy experience combined with careful observation, I find that under the system which the largest number of our mines are now developed and operated and with the fan power which has heretofore been installed, as a general proposition, it will be necessary to limit the number of splits for two reasons. First, to secure and insure the speed of the air currents which should not, as a general proposition, fall below a speed of 300 feet per minute or more when passing through the innermost breakthroughs on any entry in any mine where explosive gas or dust is to be contended with; secondly, where a split is made at each pair of cross entries in large mines, stoppings and overcasts in connection with each pair of entries and collectively with all other main or cross entries are so numerous and the leakage so vast that an immense volume of air is lost and the numerous air currents so reduced in speed as to be inadequate for the requirements, and especially so in the sections where gas is to be contended with, unless double and triple intake and return air-ways are provided and powerful fans installed. Unless this be done the air currents on the main haulways where single and used for intake will be so strong and swift it will be impossible to haul coal either by mules or machinery through them satisfactorily until they are all double and large enough to pass the desired quantity at a moderate rate of speed and to get the desired and necessary amount of air current through those sections of the haulways nearest to the drift mouth or shaft bottom in order to give a speed of 300 feet per minute to the head or inner breakthroughs of twenty or thirty different cross entries or more, and all the main straight or other developing entries which are being driven in other directions. By carefully considering the above propositions it will be seen that trap doors in the future will undoubtedly fill a very important position in connection with our mining operations as they have heretofore done in the past and will in mines that are now being developed all over the State of a gaseous nature have to be more regularly operated either by machinery or people of a much more reliable character than young boys as has heretofore been the rule in order, in the future, to reasonably protect the lives of the employes and protect property of this character.

During the year there have been twenty-six fatal accidents and a large number of minor accidents which have all occurred principally through

falls of slate and otherwise, which have been duly reported, except the disaster which occurred at the Rush Run and Red Ash Mines on the evening of March 18th at 9:40 p. m. and the morning of the 19th, 1905, at 4 o'clock. In the first disaster there were 13 lives lost. Those men were all coal miners and were working in different sections of the mine, and in the most distant parts of the interior of the mine, not one of them being less than 5000 feet from the drift mouth when the calamity occurred. It was on Saturday evening, and as stated, about 9:40 p. m. The regular quitting time of almost all the employes at the mine during the day was 5:30 p. m. or sooner and especially so on Saturday evening. As I have been informed these men entered the mine about 7 in the evening and no doubt went straight on to their work. The fans, which were in good working order, are Capell fans, giving regularly from 95,000 feet or over per minute with $1\frac{3}{4}$ -inch water gauge. The seam is five feet to six feet in thickness, the roof good, and the return airways are in good condition; all the ventilation arrangements in good order and the stoppings on the principal entries were of stone or brick, laid in mortar and cement. The doors and other stoppings were all in good condition. The operations are all conducted on the double entry and triple entry systems. These mines were known to generate small quantities of gas at local points, but have never been found to generate suddenly quantities that could be considered dangerous. The principal portion of the mining was done with punching machines. For years the general conditions were somewhat dry and dusty in some sections, and there is no doubt but dust was one of the principal factors in the accident. It is a well known fact that the New River Coal when in a pulverized condition is almost dangerously inflammable when disturbed by an unusual shock or concussion and especially so during the winter months or in the fore part of the spring if not regularly sprinkled and kept moist. Immediately after the accident it was surmised that a heavy shot must have been fired by some of those men who were in the mine. This surmise, however, was proven to be incorrect when the respective bodies were reached. The conditions existing proved conclusively that no shots had been fired or any other conditions had existed or been created by them at those points whereby the disaster could possibly have been started from any of the points where those men were at work through, or by their labors. The second disaster occurred as stated about four o'clock Sunday morning, about two hours before I arrived at the mine. In this disaster eleven men were lost. Without any disrespect to those who assumed the task of such a grave and important undertaking as to enter the mine or allow any other person to enter the mine who was inexperienced in matters of this kind, after such a severe explosion as had just occurred, without having taken every precaution possible to protect the lives of those men who, under the excitement of the time, volunteered to enter along with them in order to assist in the rescue of those unfortunate men who were in this mine certainly, however, we hope innocently, committed a grave error. The entire development of those twin mines covers an area of somewhere near 1100 square acres. It was found after the ventilation had been restored to normal condition that the force and no doubt the flame, to a

large extent, had reached every portion of this vast extent of territory. Both mines have been more or less dry, except at local points, ever since they have been in operation. The bulk of the mining, as has been stated above, has been done by machinery, consequently the old and abandoned workings contained more or less dust and of a very fine character. After the first explosion there is no doubt but these two mines, which were broken through into each other, were standing charged with what miners usually call "white damp" and what is more properly named carbonic oxide gas. A gas that is known to be of an inflammable character when mixed with fresh air, and especially so when mixed with dust also. Those eleven men went into this mine with ordinary open lamps and commenced to put up stoppings and travel around with material, etc., thereby stirring up the dry and partly consumed dust before the mines had had time to cool down, or any thorough arrangements or systematic examination could possibly have been made in regard to ventilation, etc. The result was, after they had proceeded about 1200 feet, at which distance their bodies, more or less, were found, a second explosion occurred, and they were all lost.

These mines were under my charge previous to the accident, and being principally in my charge during the reconstruction of the mines' ventilation and otherwise appointments, I take the liberty of incorporating in my report a brief statement of my labors and investigations combined with my opinion as to the first cause which brought about this calamity.

Immediately upon my arrival I took charge of the mine and organized a volunteer crew and after having made all the proper and requisite arrangements in regard to ventilation, etc., we started in to explore the mine on Monday, March 20th, at 4 o'clock a. m., and recovered the last two bodies on the evening of the 30th day, exactly ten days in clearing these two mines and without any mishap whatever during the progress of the work.

As above stated when the mine had been thoroughly explored it was discovered beyond any question of doubt that the original cause of this disaster did not emanate from any defect in ventilation of either of these mines, nor from any point where those men were at work through any defect or cause under their control. When the first explosion occurred, had these mines been defective in their ventilation arrangements the most likely time for an explosion of this description to have occurred would have been from four to six o'clock in the evening. At this hour, more than at any other hour during the day, the air currents are more or less heavily charged with dust and powder smoke. As a general proposition there is more gas at this hour than at any other hour on account of the coal being broken up by blasting from its solid position of seam and all coal miners of any experience know that powder smoke will explode when dense and sufficiently strong enough, and that coal seams contain gaseous bodies, more or less, and give off gas when broken up by blasting. Some seams give off much more than others and this is an especial feature of the New River Seams. Taking this practical and common-sense view of the matter it will be readily seen that with the ventilation arrangements in good form, the fans working in good order for something over four hours after quitting time, no shots were fired, no mules nor motors moving on

the haulways, the air currents and ventilation in general must have been much purer and safer under ordinary circumstances at the hour this explosion occurred than at any other during the day when the mine was in operation. Under those circumstances the question naturally arises how and by what means was this accident brought about? After a rigid and careful investigation of every section of both of those mines there is but one answer to the question. On the inside of the Rush Run Mine, about 250 feet from the drift mouth, two mine cars, each having a carrying capacity of nearly two tons, substantially built and weighing not less than upwards of one ton each, and standing immediately behind a twelve ton electric motor, were torn to atoms, portions of the debris were scattered in all directions, forward, backward and sideways. In among this debris was found the mutilated, corrugated sheet covering apparently of some highly explosive body, and from its appearance it would have made a cannister $4\frac{1}{2}$ inches in diameter and 10 inches in length, containing one-half gallon, which had apparently been exploded at this point. This covering was 14 inches in length and 10 inches in width and was of a highly polished character. The result of such an occurrence as this can be better imagined than described. When it is understood that at this point the air currents are regularly traveling under ordinary conditions at a speed of from eight to ten hundred feet per minute or more, and it is safe to say that at this hour of the night, when no motors or otherwise forces were operating in any opposite direction, those air currents were traveling at a rate of speed even higher than those stated. The regular ventilating pressure of this Rush Run Mine as indicated by the water gauge over and above the natural pressure is about seven and three-tenths pounds per square foot, and it is a well known fact by all practical miners that the presence of coal dust thrown into suspension in the air currents by extraordinary pressure, due to heavy blasts or concussions of the air columns, caused from heavy falls of roofing and many other causes, that any of these causes may bring about an explosion if sufficiently severe and that if conditions exist where any such unusual and unfortunate happenings may occur. The exploding of this amount of any high explosive which would not be less than 154 square inches would create an immense pressure in proportion to the strength of the material which the can contained and which, from the wreckage produced, must have been of a powerful character. This would act inwardly, creating a tremendous shock and concussion all through the mine, stimulate the air currents to a terrible rate of speed all over the mine, thereby raising clouds of dust in every section of this mine. It would also act outwardly, momentarily cutting the air column in two and creating a vacuum immediately in the neighborhood on the entry where the blast had occurred and when the recoil of this ventilating column returned a second shock or concussion would be the result, again adding clouds of dust to the already dust laden atmosphere of the entire mine.

As above quoted in this report, the developed territory of those two mines covers an area of over one thousand square acres, allowing that two-thirds of this territory had been mined away, say one-third yet standing in pillars, we would have nearly twenty-eight million square feet of floor

space in those two operations, all more or less covered with a deposit of fine coal dust and a very large quantity of this dust which has been carried back by the air currents and into the old workings is as fine as flour and almost as inflammable as powder when stirred up. In my opinion these dust-laden air currents were carried into where those men were at work with naked lights and were actually fired at every place where they were working and then took an outward course towards the drift mouth. My opinion is based on the conditions I found existing during the period of the exploration. Towards the innermost portions of the Rush Run Mine the substantial stone stoppings which were built all along the line of the main entry, several of them were only slightly damaged by having a small portion of the top blown off, but the remainder, for a distance of upward of thirty-five hundred feet leading towards and nearest the drift mouth, were entirely torn to pieces, blown out and in many instances hurled clear across the main entry, a distance, in some cases, of not less than twenty feet. This conclusively proved to me that this cyclone of fire and dust gained strength on its course towards the drift mouth of the mine. Another instance almost confirms this theory. None of those men were burnt. Had this fire gone in on them they could not have failed to have been severely burnt. At one point in a room closely contiguous to and not more than one hundred feet from where the body of Mr. Jones was found on the ninth right entry, the writer, in company with Mr. James McDonald, the present fire boss, and others, found lying on a small pile of coal two cartridges of powder in paper covers, each twenty-two inches in length, ready to charge two holes already drilled, and which were not even scorched. This was proof positive that the flames never reached them.

During the year there have been no strikes or labor troubles of any kind whatever; nor change in price of any class of work in the district.

The C. & O. Ry. has and is still making very extensive improvements all through the district by way of building double tracks along the main lines; also putting in a large number of very extensive side tracks at various points, bridging New River a short distance west of Sewell and other important improvements necessary to meet the requirements of the enormously increasing output of coal in this district.

In conclusion I wish to return my sincere thanks to the mining officials of every grade for the kind and courteous treatment extended to me during my official visits to the various mines, and I desire to say that words can but faintly express my gratitude and thanks to all those who came forward and risked their lives in assisting me to explore the mines and recover the bodies of the unfortunate men who were lost in the Rush Run and Red Ash Mine disaster.

It gives me pleasure to also return my sincere thanks to all miners and other workmen in the district for the kind and friendly manner in which I have always been received by them and also to you, my chief, sincere and hearty thanks for your advice and assistance during the year.

Most respectfully yours,

EDWARD PINKNEY,

Mine Inspector, Third District.

CONDITION OF THE MINES IN THE THIRD MINING DISTRICT.

EDWARD PINKNEY, INSPECTOR.

(Note—Mines Nos. 246 to 257, inclusive, were inspected and reported upon by Mr. Henry, Inspector of the Second District.)

FAYETTE COUNTY.

HICKORY CAMP COAL AND COKE COMPANY.

No. 246. *Hickory Camp Mine.*—This mine is located on Paint Creek and operates the Eagle or No. 1 Gas Seam, which varies in thickness from four to five feet. The roof is good and the mine is properly timbered. There are several openings to this mine, each of which is ventilated by a temporary furnace which gives sufficient air for the number of men employed. Crosscuts are regularly driven, haulways in first class condition and the general safety of all entries and rooms is good. A fair quality of oil is used for illuminating purposes. Deficiencies at this mine are, no rules posted and no stretchers and blankets kept on hand.

JOHN W. MAHAN and JOHN WURTS, Superintendents.

L. W. FOSTER, Mine Boss.

KANAWHA AND HOCKING COAL AND COKE COMPANY.

No. 247. *K. & H. Mine No. 111.*—This mine is located on Smithers Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is good; drainage good. The mine is properly timbered and the safety of all entries and rooms is good. During the latter part of the year the arrangements for ventilation have been greatly improved. The fan was moved to a point near the working places, mine doors and stoppings repaired, and crosscuts regularly driven, and with this improvement in the system, the mine is properly ventilated. The haulways are in good condition with ample room for workmen to pass the cars. A fair quality of oil is used for illuminating purposes. A safety lamp and stretchers are kept on hand and rules posted at the mine.

T. E. ROAN, Superintendent.

H. E. TAYLOR, Mine Boss.

No. 248. *K. & H. Mine No. 112.*—This mine is located on Smithers Creek and operates the No. 2 Gas Seam, which has a thickness of five feet. The roof is good and the mine is properly timbered and the general safety of all entries and rooms is good. Haulways are in good condition, with sufficient room for workmen to pass the cars. The mine generates very little water. Drainage moderate. Crosscuts are regularly driven, mine doors and stoppings kept in fair condition. Ventilation does not meet with the full requirements of the law, this being due to the condition of the fan, which is practically worn out. Mr. J. M. Roan, the manager, gave the assurance that the old fan would be replaced by a new one without delay. A fair quality of oil is used for illuminating purposes; a safety lamp and stretchers are kept on hand and rules posted.

T. E. ROAN, Superintendent.

ARTHUR MITCHELL, Mine Boss.

No. 249. *K. & H. Mine No. 114.*—This mine is located at Longacre and operates the No. 2 Gas Seam, which has an average thickness of five feet. The roof is good and the general safety of all entries and rooms is good.

Crosscuts are regularly driven throughout the mine. Mine doors and stoppings have been repaired and placed in good condition. Ventilation is produced by a seven-foot Stine fan, which gives satisfactory results. A fair quality of oil is used for illuminating purposes. Stretchers and safety lamp are kept on hand and rules posted at the mine.

T. E. ROAN, Superintendent.

ROBERT TAYLOR, Mine Boss.

No. 250. *K. & H. Mine No. 115.*—This mine is located at Harewood and operates the No. 2 Gas Seam, which has a thickness of five to six feet. The roof is good and the mine properly timbered and the general safety of all entries and rooms good. The haulways are kept in first class condition. The fan has recently been moved to a point near the working places; mine doors and stoppings have been repaired and placed in good condition. A seven-foot Stine fan is used for ventilating purposes and the ventilation is generally good throughout the mine. The mine is practically dry, drainage moderate. A fair quality of oil is used for illuminating purposes. A safety lamp and stretchers are kept on hand and rules posted at the mine.

T. E. ROAN, Superintendent.

ROBERT TAYLOR, Mine Boss.

No. 251. *K. & H. Mine No. 117.*—This mine is located at Ferris and operates the No. 2 Gas Seam, which varies in thickness from four and a half to six and a half feet. Part of the mine has an excellent roof, but in some sections there is a draw slate varying in thickness from three to twenty inches, which has to be taken down or carefully timbered to insure safety. The miners are well supplied with timber and the mine is properly timbered. Owing to the bad roof, in some sections the haulways are obstructed to some extent, thus making it difficult, in some places, for workmen to pass the cars. The past few months this mine has had a great deal of water to contend with and the system of drainage is very poor and in some sections the haulways were found to be very muddy. Preparations were being made to install an electric pump. Ventilation is produced by a seven-foot Stine fan, which gives good results when the doors are properly attended. A fair quality of oil is used for illuminating purposes. Stretchers and safety lamp are kept on hand and rules posted at the mine.

T. E. ROAN, Supt.

C. D. BIRTHISEL, Mine Boss.

COLUMBUS IRON AND STEEL COMPANY.

No. 252. *Columbus Mine No. 1.*—This mine is located at Marting on Smithers Creek and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. The roof is good and the mine is properly timbered. The general safety of all entries and rooms is good; drainage moderate. Crosscuts are regularly driven; mine doors and stoppings kept in good repair. Ventilation is produced by an eight-foot Thayer fan and the air is properly distributed throughout the mine. In some sections of the mine there was an accumulation of dust and this was found to be properly sprinkled. The mine boss is a very competent man and gives careful attention to the ventilation and general safety of the mine. A fair quality of oil is used for illuminating purposes, stretchers are on hand and rules posted at the mine.

G. H. MARTING, Superintendent.

JOHN PHILLIPS, Mine Boss.

KANAWHA GAS COAL COMPANY.

No. 253. *Kanawha Gas Mine.*—This mine is located at Smithers and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. The roof is good and the general safety of all entries and rooms is good. The haulways are in first class condition with sufficient room for workmen to pass the cars. This mine is ventilated by a fan located at the Oakland Mine, entries from these mines being connected for that purpose, which gives satisfactory results. Crosscuts are regularly driven, and mine doors and stoppings are in good repair. The mine is practically dry and some sections were found to be dusty, to which the attention of the mine boss was called with the request that these sections be properly sprinkled. A fair quality of oil is used for illuminating purposes. Stretchers are on hand and rules posted at the mine.

T. A. BARTLAM, Superintendent.

JOHN H. TITLOW, Mine Boss.

W. R. JOHNSON & COMPANY.

No. 254. *Oakland Mine.*—This mine is located at Smithers and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. The roof is good and the mine properly timbered and the general safety of all entries and rooms is good. Haulways in first class condition, with sufficient room for workmen to pass the cars. Crosscuts are regularly driven and mine doors and stoppings in good condition. Ventilation is produced by a ten-foot Crawford and McCrimmon fan, which furnishes sufficient air and this is properly distributed throughout the mine. A fair quality of oil is used; stretchers are kept on hand and rules posted at the mine. During the year an electric plant was installed at the mine.

T. A. BARTLAM, Superintendent.

BEN HILL, Mine Boss.

BOOMER COAL AND COKE COMPANY.

No. 255. *Boomer Mine No. 1.*—This mine is located at Boomer and operates the No. 2 Gas Seam, which has a thickness of five to six feet. The roof is good and the mine is properly timbered. The general safety of all entries and rooms is good. Ventilation is produced by a twelve-foot Crawford and McCrimmon fan, which furnishes sufficient air for the proper ventilation of the mine. Mine doors and stoppings in good condition. Crosscuts between the rooms are regularly driven, while between entries they are driven at a distance of two hundred feet, brattice cloth being used to direct the air current to the face of the headings, with good results. This mine is very dry and in some sections there is quite an accumulation of dust, but this is properly sprinkled, water being hauled from the outside for this purpose. A fair quality of oil was being used for illuminating purposes. Stretchers were kept on hand and rules posted at the mine.

W. M. GILLIE, Superintendent.

MIKE BLYTHE, Mine Boss.

No. 256. *Boomer Mine No. 2, North and South.*—These mines are located on Boomer's Branch and operate the No. 1 or Eagle Seam, which varies in thickness from five and a half to six and a half feet. The roof is slate and with the exception of a few places is fairly good throughout the mine. Drainage moderate. Ventilation is produced by two ten-foot Stine fans,

one being located at the north side and the other at the south side, which furnish sufficient air for the proper ventilation of the mines. The mine doors and stoppings are in fair condition. In some sections the crosscuts were not regularly driven at the required distance. The superintendent's attention was called to this neglect and he gave the assurance that in the future the crosscuts would be made at the proper distances. A fair quality of oil is used for illuminating purposes, rules are posted and stretchers and blankets kept on hand.

Improvements made at these mines during the year consist of a new power house 73x73 feet, the foundations requiring 360 cu. yds. of stone, the building requiring 250,000 brick, with a Ferro-enclave roofing, the whole building being absolutely fire-proof; power consisting of three McEwen engines of 318 H. P. each, built by the Ridgeway Mfg. Co., direct connected three Thompson-Ryan generators, 200 K. W. each; the battery consisting of six boilers 150 H. P. each; the pumping system consisting of one electric pump of 7½ H. P., with a high-pressure pump of 20 H. P. This is one of the best power plants in the district.

W. M. GILLIE, Supt.

J. W. STRAUGHAN, Mine Boss.

No. 257. *Boomer Mine No. 3.*—This mine is located on Boomer's Branch and operates the No. 2 Gas Seam, which has a thickness of five and a half feet. The roof is good, and drainage moderate. The general safety of all entries and rooms is good. Crosscuts between rooms are regularly driven, while between entries they are driven at a distance of two hundred feet, brattice-cloth being used to direct the air currents with good results. Mine doors and stoppings in good repair. The haulways are in first class condition with ample room for workmen to pass the cars. In some sections of the mine there was an accumulation of dust, but this was being properly sprinkled. A fair quality of oil was being used for illuminating purposes. Some of the miners were found to have full kegs of powder in the mine, which was ordered to be removed from the mine, which order was cheerfully complied with by some of the men, while others had to be forced into compliance. The following improvements were made at this mine during the year: Incline was relaid with heavy steel rails; a new drum and drum-house were built, and a modern tippie constructed. Rules are posted, stretchers and blankets kept on hand.

W. M. GILLIE, Superintendent.

HENRY M. DEEM, Mine Boss.

KANAWHA FALLS COLLIERY CO.

No. 258. *Kanawha Falls Mine.*—This operation is located at Kanawha Falls on the Great Kanawha River, and on the main line of the C. & O. Ry. The operations are in the No. 2 Gas Seam. For some trouble about getting in side tracks, etc., the work has been suspended for some time. GEO. KREBBS, Gen. Mgr.

GORDON COAL & COKE CO.

No. 259. *Eureka Mine No. 1.*—No inspection report was made on this mine during the year.

GEORGE FRASER, Supt.

D. B. HOWRY, Mine Boss.

Nos. 260 and 261. *Eureka Nos. 2 and 5 Mines.*—These are drift mines

located on the Morris Creek Branch of the C. & O. Ry., about $1\frac{1}{2}$ miles south of Montgomery and 27 miles east of Charleston. The developments are in two different seams. The No. 2 operation is in the Coal Valley or No. 2 Gas Seam and the No. 5 operation is in the Splint Coal Seam, known as the No. 5 Block Coal. Both these mines are conducted principally on the double entry system. They are also operated on the same lease, the side tracks and tipples being close together. The distance between the seams, however, being something over 800 feet. The seam in the No. 2 Mine ranges in thickness from 4 to 5 feet, is very soft and easy to mine, contains some impurities such as bone and slate at local points varying in thickness from $\frac{1}{2}$ inch to 6 inches. The work is all pick mining. The hauling on main roads is done by electric motors. The ventilation is produced by a 10-ft. Crawford and McCrimmon fan, which, on account of the developments being beyond the capacity of the fan, is in some sections of the mine only very moderate. The mine makes very small quantities of water, only enough to keep the roads moist. The general condition of the mine in regard to safety arrangements on all haulways is good, and the doors and stoppings in good repair.

The seam in the No. 5 Mine ranges in thickness from 4 to 6 feet, including two small bands of slate and bone coal which occur locally and are not constant. The mining in rooms and entries is principally done by electric machines and in pillars usually by pick work. The ventilation is natural and always has been. The seam is near the top of the mountain and quite a number of openings have been made to daylight for ventilation and drainage purposes, both of which are fairly good. The conditions on all haulways are safe. During the year both these mines were inspected twice and on each occasion were found as stated above. Safety lamps and all requirements for moving injured workmen, etc., were also found on hand.

GEORGE FRASER, Supt.

JAMES FRASER, Mine Boss No. 5 Mine.

D. B. HOWRY, Mine Boss No. 2 Mine.

ST. CLAIR COLLIERY CO.

Nos. 262 and 263. *St. Clair Nos. 1 and 2 Mines.*—These are drift mines located on the Great Kanawha River and on the main line of the C. & O. Ry., 29 miles east of Charleston. The shipments are all made by rail. The operations are in the Eagle and No. 2 Gas coals. No. 1 Mine's developments are in the Eagle or No. 1 Gas seam, which has an average thickness at this point of about 4 ft. 8 inches, including a slate band about 4 inches in thickness, and has a good slate roof. All entries are driven double. The coal is hauled by mules. The ventilation produced by a 10-ft. Crawford & McCrimmon fan which gives satisfactory results. This mine makes very little water and in some sections is moderately dusty, and in others moist. The general safety of all haulways is good.

The No. 2 Mine operates the Coal Valley or No. 2 Gas seam. The mining is conducted on the double entry system. The seam averages about 4 ft. 8 in. to 5 ft. in thickness. The hauling on the main roads is performed by electric power. The ventilation is produced by a 10-ft. Crawford & McCrimmon fan, which is not adequate for the requirements of this mine,

hence the ventilation is only moderate. The drainage is fairly good. The general safety of the haulways is good except on the motor haulways, where there is not enough refuge holes to comply with the law; however, the miners are hauled in and out in the cars.

Three regular inspections were made of these mines during the year and on each occasion the mines were found as above stated. As required by law this company keeps on hand all the requirements for removing any injured workmen, safety lamps, etc., but has as yet no special rules posted.

LOUIS ATKINSON, Supt.

PAT WALKER, Mine Boss No. 1 Mine.

WM. KNIGHT, Mine Boss No. 2 Mine.

ECONOMY FUEL CO.

No. 264. *Economy Mine*.—This is a slope mine located within the corporate limits of the Town of Montgomery and on the main line of the C. & O. Ry., 27 miles east of Charleston. The operations are in the Eagle or No. 1 Gas seam, which averages at this point about 3 ft. 6 in. in thickness, including a slate band and bone coal combined usually about 2 to 4 inches in thickness near the top of the seam.

The developments are conducted on the entry and airway plan principally; that is to say, the roof is taken down on the entries to make height for haulage purposes and on the airway or back entry the coal is pushed out and no roof taken down. The coal is of a soft character and easily mined. The ventilation is produced by two small furnaces, which give very moderate results from a general standpoint. The drainage is good in some sections and bad in others. As to the general condition of this mine in regard to the haulways, doors, stoppings, etc., it is fairly good and apparently safe. The necessary requirements for removal of injured workmen, safety lamps and other requirements of law are kept on hand. This mine was visited and inspected three times during the year and on each occasion was found in the condition as above described. This mine, although only a small mine, ships by both river and rail. The rail shipments are hauled by a steam head rope and river by an electric motor. I have advised the company to install a fan and dispense with the furnaces, which would undoubtedly be much more satisfactory to all parties concerned and a great benefit to the workmen employed. Special rules are not posted.

L. P. WHITE, Supt.

JAMES DAVIS, Mine Boss.

W. R. JOHNSON.

Nos. 265, 266 and 267. *Crescent Mines Nos. 1, 2 and 5*.—These are drift mines located on and shipping coal by the Great Kanawha River and the main line of the C. & O. Ry., 28 miles east of Charleston. These three mines are being operated on one lease. Each mine is in a different seam of coal, but the three tipples are connected. The river tipple serves for the shipment of the three different coals when necessary.

The No. 1 Mine is in the Eagle or No. 1 Gas coal, which ranges in thickness from 3 ft. 2 in. to 3 ft. 8 in., including about 4 inches of slate and bone coal near the top of the seam. The roof is slate principally and good.

The mining is conducted principally on the entry and airway plan. The ventilation is produced by a 10 ft. disc fan which gives very good results. This mine makes considerable water, which has to be pumped out. The grades are very irregular, making it very difficult to keep the drainage as good as it ought to be.

The No. 2 Mine is in the Coal Valley or No. 2 Gas coal. The work is all pillar work and has been so for several years. The ventilation is produced by a 10-ft. Crawford & McCrimmon fan and is satisfactory in every respect. The drainage is good.

The No. 5 Mine operates the No. 5 Splint Block seam and is principally pillar work. The ventilation is natural and good, there being quite a number of openings at almost every point where any work is in progress. The drainage in this mine is regulated, to a great extent, by the conditions outside. When it rains the roads are wet and as soon as it stops the roads dry up in a short time.

Two regular inspections of these three mines were made during the year and on each occasion the conditions of the haulways in regard to general safety were found good in each mine. Other conditions found as stated above. As is required by law, suitable stretchers, blankets, safety lamps, etc., on hand.

THOS. A. BARTLAM, Gen. Supt.

LOU WATERS and A. J. KIRBY, Mine Bosses.

CARVER BROTHERS CO.

Nos. 268 and 269. *Mecca Mines Nos. 2 and 5.*—These mines are located on Morris Creek, a tributary of the Great Kanawha River, and on the Morris Creek Branch of the C. & O. Ry., $1\frac{1}{2}$ miles south of Montgomery and 27 miles east of Charleston. The developments are in two different seams, the No. 2 Mine is in the No. 2 Gas coal and the No. 5 Mine operates the No. 5 Splint coal. Both of these mines are conducted on the double entry system. They are also on the same lease. The No. 2 Mine requires no incline; the No. 5 is reached by an incline 1925 feet in length. Both tipples are located on the same side-tracks and near together.

The seam in the No. 2 Mine ranges in thickness from 4 to 5 feet and is a soft bituminous coal and easy to mine; contains no impurities, except some very small bands of bone coal at local points, not being constant. The work is all pick work. The coal on all main haulways is hauled by electric power. The ventilation is produced by two disc fans, one installed at the drift mouth and another about 3000 feet inside of the mine, which is operated by electric power and the two combined give very good results. The mine makes only enough water to keep the roadways in a very comfortable condition. The general condition of this mine in regard to safety on the haulways is good at all points except at one particular point on the main haulage road. This has been somewhat a source of trouble for some time on account of a squeeze. It is, however, much better now than it has been. This has not interfered with the second outlet in any way.

The No. 5 seam at this place ranges in thickness from 4 to 6 feet and at local points contains two small slate bands. The ventilation is natural, like all other mines in this seam, as the seam is near the top of the moun-

tain, and there are a number of openings for ventilation and drainage and other purposes.

These mines were regularly inspected twice during the year and on each occasion, in both mines, all the appointments were found in satisfactory condition and apparently safe in every detail. All requirements for removing injured workmen, safety lamps, etc., on hand, but no special rules have been posted.

JOHN CARVER, Gen. Mgr. ALFRED CARVER, Mine Boss No. 2 Mine.

FRANK CARVER, Supt. GEO. CANTERBURY, Mine Boss No. 5 Mine.

Nos. 270, 271, 272, 273, 274 and 275. *Edgewater Nos. 1, 2, 3 and 5, Eagle and California Mines.*—These are drift mines, all more or less connected, having two shipping points, located on and shipping coal by the Great Kanawha River and the C. & O. Ry. main line, about 29 miles east of Charleston. Three seams of coal are operated, the Nos. 1 and 2 Gas and the No. 5 Splint seams. The Edgewater No. 1, Eagle and California Mines are operating the Eagle or No. 1 Gas seam, which averages at this point about 3 ft. 8 in. to 4 ft. in thickness and has the usual impurities about 4 inches thick. The ventilation is to some extent conducted jointly and produced by two fans, one 10 ft. and one 16 ft., which give fairly good results. The drainage in these mines is moderate and bad.

The Edgewater Nos. 2 and 3 Mines are operating the Coal Valley or No. 2 Gas seam, which ranges in thickness from 4 to 5 ft. These mines are connected and are ventilated jointly by fan power, which gives fairly good results all over the mines. The drainage is also good in these mines.

The Edgewater No. 5 Mine is in the No. 5 Splint seam and the work is principally pillar work. The ventilation is natural and usually very good on account of the altitude and the number of openings. This seam ranges in thickness from 5 ft. to 6 ft. and contains two small bands of impurities in spots.

Three regular inspections were made of these mines during the year and on each occasion the haulways, both main and local, were found in a safe condition, although not altogether satisfactory on account of gob being piled up on the side of motor and other haulways forming obstructions; otherwise conditions were found as stated above. I found all the equipment on hand for accidents, as required by law, together with safety lamps, but no special rules posted.

ENOCH CARVER, Gen. Mgr.

JOHN E. CARVER and JOHN THURMOND, Mine Bosses.

No. 276. *Diamond Mine.*—This is a drift mine located on the Great Kanawha River and on the C. & O. Ry. Sometime ago this mine was abandoned. It is now being re-opened at another point in the No. 2 Gas seam and new tipples, electric plant, etc., are now being erected and will be ready to ship coal in a few weeks.

ENOCH CARVER, Supt.

JOHN TASKER, Mine Boss.

THE MT. CARBON COLLIERY CO., LTD.

Nos. 277, 278 and 279. *Vulcan, South and Excelsior Mines.*—These are drift mines located on Armstrong Creek and on a branch line of the C. &

O. Ry. about 8 miles south of Mt. Carbon and 30 miles east of Charleston. The developments of the Vulcan and South Mines are in the Powellton seam, which at this point ranges in thickness from $4\frac{1}{2}$ to 5 ft., including a band of slate of a very hard character, ranging in thickness from 2 to 10 inches immediately in the center of the seam. This slate is, however, irregular and not constant. The system of mining is principally double entry and the ventilation in the Vulcan Mine is produced by a 10-ft. disc fan, which gives very good results. In the South Mine the ventilation is natural and only moderate. The drainage in both mines is good except at local points. The general safety of all haulways is good in both mines. The mining in the Vulcan Mine is done by both pick and machines. In the South Mine all mining is done by the electric mining machines. The hauling on the main haulways is done with a compressed air locomotive. These mines were inspected two times during the year and on each occasion they were found in a satisfactory condition and all the requirements in regard to keeping on hand the necessary equipment for the removal of injured workmen, safety lamps, etc., were complied with.

The Excelsior Mine has done very little work during the year and was only inspected once during the fore part of the past year, at which time it was found in a satisfactory condition.

D. T. EVANS, Supt.

JOHN I. ABSALOM, Mine Boss Vulcan Mine.

JAMES YOEELL, Mine Boss South Mine.

J. W. GREEN, Mine Boss Excelsior Mine.

THE GREAT KANAWHA COLLIERY CO., LTD.

Nos. 280, 281, 282, 283 and 284. *Brewster, Edwardes, Rhinolas, No. 5 and Digby Mines.*—These are drift mines located on the Great Kanawha River and on the main line of the C. & O. Ry. about 4 miles east of Montgomery and 30 miles east of Charleston. The product is shipped by river and rail.

The operations are in the Nos. 1 and 2 Gas coal seams. The developments are conducted on the double entry system. The No. 1 or Eagle seam averages at this point about 3 ft. 4 in., including a slate band about 3 inches in thickness near the top of the seam. The roofing is good sound slate as a general proposition. The No. 2 or Coal Valley seam ranges in thickness from 4 ft. to 4 ft. 4 in., including a slate band about 8 to 10 inches in thickness near the top of the seam. The roof is slate of a very good sound character. About one half of all coal mined at these mines is machine mined, the balance pick mined. The coal in the No. 2 or Edwardes Mine is hauled by electric power on the main haulways, in all the other sections and in the No. 1, or Brewster, and Digby Mines is hauled by mules. The ventilation in all these mines is produced by small furnaces and natural means at present and as a general proposition is fairly good. The drainage is good. On all haulways, both main and local, the conditions in regard to general safety is good. These mines were inspected three times during the year and were found satisfactory on every occasion. All requirements for moving injured workmen, keeping on hand safety lamp, posting special rules, etc., apparently regularly complied with.

The Digby Mine has been suspended for the greater portion of the year.

One inspection only being made during the fore part of the year. The No. 5 Mine at this place has been exhausted and abandoned during the year.

R. J. STEGALL, Supt. THOS. FIFE and J. WEDGEWOOD Mine Bosses.

CARDIFF COAL CO.

Nos. 285, 286 and 287. *Kimberly Nos. 1 and 2 and Columbia Mines.*—These are drift mines located on Armstrong Creek Branch of the C. & O. Ry., about 2 miles southwest of Mt. Carbon and 30 miles east of Charleston. The operations are in the No. 2 Gas seam, which at the Kimberly Mines is from 5 to 6 feet in thickness, including two slate bands averaging in thickness from 4 to 10 and 12 inches each. The mining is principally done by electric machines in both mines. The product is also hauled on all main roads by electric motors. The ventilation in both mines is produced by 10 ft. fans, operated by electric power and is good all over these mines. These mines make only enough water to keep the roads, as a general proposition, damp. The general safety of all haulways is good and apparently safe in every respect.

The seam in the Columbia Mine averages about 4 feet in thickness, including a slate band about the center of the seam and which is about 5 to 6 inches in thickness.

These mines were regularly inspected three times during the year and on each occasion were found as above stated and satisfactory. All the requirements of the mining laws in regard to moving injured workmen, keeping on hand safety lamps, etc., observed, but there are no special rules posted.

WM. A. CARVER, Gen. Supt.

ED. FORBES, Mine Boss, Kimberly Mines.

GEO. HARTWELL, Mine Boss Columbia Mine.

Nos. 288 and 289. *Elk Ridge Nos. 1 and 2 Mines.*—These are drift mines located on Armstrong Creek, a tributary of the Great Kanawha River, and on a branch line of the C. & O. Ry., about 4 miles southwest of Mt. Carbon and 32 miles east of Charleston. The developments of both these mines are in the Powellton seam and are very limited as yet. They are conducted on the double entry system. The seam is a superior quality of gas or coking coal, averaging in thickness something over 5 feet and contains no impurities worth mention at present. The roof is very good, sound slate. The ventilation in both of these mines is natural. It is the intention of the company to install a fan at each mine as soon as the various openings are holed into each other. A large electric plant has been installed and the greatest proportion of the coal is mined by electric mining machines.

Two regular inspections were made of these mines during the year and on each occasion all the various appointments of the operations were found satisfactory and in good condition and apparently all the requirements of the mining laws regularly observed.

WM. A. CARVER, Gen. Supt. STEPHEN RIGGS, Mine Boss No. 1 Mine.

E. J. STANLEY, Mine Boss No. 2 Mine.

GAULEY MOUNTAIN COAL CO.

Nos. 290 and 291. *Gauley Mountain Nos. 1 and 2 Mines.*—These are drift mines located on Mill Creek, a tributary of New River, and on a branch of the C. & O. Ry. leaving the main line at Hawks Nest, about 45 miles east of Charleston. The operations are all in the No. 2 Gas seam, and the developments are conducted on the double entry system. The seam ranges in thickness from 4 ft. 6 in. to 6 ft. In some sections of the work there are two small slate bands in the seam. The roof is slate, in some sections good and in others very bad. About one-half of the coal is pick mined and the rest mined with punching machines operated by compressed air. The coal is hauled by steam engines and electric motors. The ventilation is somewhat mixed, fans and furnaces are used at different points. The ventilation is generally good. Drainage is fairly good in most of the openings. The general safety of all haulways is good. These operations were regularly inspected twice during the year and on each occasion the conditions in general were found satisfactory. All necessary and requisite arrangements for anything of an accidental character being properly provided for, safety lamps kept on hand and every effort on the part of the management apparently exercised to have all the workmen observe the requirements of the mining laws in general.

RALEIGH TAYLOR, Supt.

JAMES MARTIN, Mine Boss.

LOUP CREEK COLLIERY CO.

Nos. 292 and 293. *Eagle and Ansted Mines.*—These are drift mines located on Little Loup Creek, a tributary of the Great Kanawha River, and on the Deepwater R. R., which connects with the C. & O. Ry. main line at the Town of Deepwater, 32 miles east of Charleston. These mines are about 12 miles up the creek and are in the Nos. 1 and 2 gas seams. They are being opened on a very extensive and up-to-date scale. Some 550 beehive coke ovens have been completed. New dwellings of an improved character are being built in large numbers. One of the largest electric plants in the district is now being installed and also other improvements of an expensive character in progress for handling and mining purposes. Several miles of narrow gauge railroad have been built on the side of the mountain, on which two steam locomotives have been installed. Some sixteen or eighteen drift openings have been put in at various points on the narrow gauge road. As yet, however, a very limited quantity of coal has been shipped. The No. 1 seam at this point is about 6 feet in thickness, including several bands of slate and bone and other impurities. The No. 2 Gas seam is in two sections, the bottom section averaging 4 ft. clean coal; above this there is a slate parting, which at the lower or eastern end of the property runs about 8 to 10 inches in thickness and at the western end this slate develops a thickness of some 14 to 15 feet and above this parting there is 3 feet of clean coal. In some of the openings now made this slate parting is found as much as 30 inches in thickness and gradually thickening as the entries are being driven in. The developments are on the double entry system. These mines were twice visited during the year and found in satisfactory condition on each occasion.

F. P. MILLS, Supt.

D. S. DOOLEY, Mine Boss.

NEWCASTLE COAL CO.

No. 294. *Gaymont Mine*.—This is a drift mine located on New River on the main line of the C. & O. Ry., about 46 miles east of Charleston. The operations are in the Sewell seam and are conducted on the entry and airway system. The ventilation is produced by a 12 ft. Crawford & McCrimmon fan, which gives very good results. The drainage is fairly good and the general safety of all haulways when last inspected was in a safe condition and very satisfactory. This mine has been suspended during the greater portion of the year and only one regular inspection was made at which time all arrangements were found satisfactory and as required by law.

(Note—No report of this inspection was made to the office of the Chief Mine Inspector.)

H. B. CLARKSON, Supt.

A. T. TOLER, Mine Boss.

ISABEL COAL & COKE CO.

Nos. 295 and 296. *Elmo and Sunnyside Mines*.—These are drift mines located on New River and on the main line of the C. & O. Ry. The developments are in the Sewell seam, which ranges in thickness from 2 ft. 10 in. to 3 ft. 2 in. The ventilation is produced by fan power and is fairly good in both mines. The drainage in the Sunnyside Mine is very poor, in the Elmo Mine fairly good. The haulways in both mines are in good condition and the general safety is good. These mines were inspected two times during the year and found satisfactory and apparently in safe condition at all points.

T. C. BEURY, Gen. Mgr.

G. D. McDANIEL, Supt.

JOHN SEYMOUR, Mine Boss Elmo Mine.

RICHARD SEYMOUR, Mine Boss Sunnyside Mine.

No. 297. *Dimmock Mine*.—This is a drift mine located on the north side of New River and on the main line of the C. & O. Ry. The operations are in the Fire Creek seam, which at present is very thin in this mine, ranging from 30 to 32 inches in thickness, except a small portion of work which mainly consists of pillars and small patches near the out-crop, which is at present the main stay of the work. Only a small force is employed at present.

This mine was inspected twice during the year and found satisfactory in regard to ventilation, safety of haulways, etc.

ERNEST ECHOLLS, Supt.

JOHN DEMPSEY, Mine Boss.

MICHIGAN COAL CO.

No. 298. *Michigan Mine*.—This is a drift mine on New River on the main line of the C. & O. Ry., 48 miles east of Charleston. The seam worked is the Sewell, which averages in thickness about 3 feet. The developments are conducted on the double entry system. The ventilation produced by a furnace. The stoppings, doors and all ventilation arrangements are all kept in excellent shape and the ventilation is good. The drainage is good. The haulways in a safe condition and mining laws in regard to keeping on hand stretchers, safety lamps, etc., are regularly observed.

Two regular inspections were made of this mine during the year and on each occasion the mine was found in excellent shape.

JAMES BOONE, Supt.

VAL BACHMAN, Mine Boss.

FAYETTE COAL & COKE CO.

No. 299. *Fayette Mine.*—This is a drift mine located on New River and on the main line of the C. & O. Ry., 49 miles east of Charleston. The Sewell seam is worked. Developments are conducted on the double entry system. The ventilation is produced by furnace power, which is inadequate for the requirements of this mine and is very poor. Drainage is fairly good. The general safety of all haulways is good.

Two regular inspections of this mine were made during the year and on both occasions the ventilation was found poor; other arrangements satisfactory. The requirements of law in regard to keeping on hand stretchers, safety lamps, etc., are complied with. No special rules have yet been posted at this mine.

M. W. BRELLAHAN, Supt.

L. W. RHODES and JAMES LOMAX, Mine Bosses.

LOW MOOR IRON CO. OF VIRGINIA.

Nos. 300 and 301. *Kay Moor Nos. 1 and 2 Mines.*—These are drift mines located on the south side of New River and on the South Side Branch of the C. & O. Ry. The developments of both mines are in the Sewell seam, which averages in thickness 3 ft. 6 in., and are conducted on the double entry system. The ventilation in the No. 1 Mine is produced by a 20 ft. Crawford & McCrimmon fan. In the No. 2 Mine the ventilation is produced by furnace power. The ventilation of both mines is good. Drainage good. The general safety on all haulways is good and the requirements of the mining laws are strictly observed and rigidly enforced. Electric motors are used for haulage.

These mines were regularly inspected four times during the year and on each occasion were found in good condition, as stated above.

H. D. GAST, Supt.

JAMES McBRAYER, Mine Boss No. 1 Mine.

A. R. JONES, Mine Boss No. 2 Mine.

CATARACT COLLIERY CO.

No. 302. *Whitney Mine.*—This is a drift mine located on the south side of New River and on the South Side Branch of the C. & O. Ry., about 49 miles east of Charleston. The developments are in the Sewell seam, which averages about 3 feet in thickness. The principal portion of the coal is mined by electric machines. As yet the developments are very limited. The ventilation is produced by a small furnace which is adequate for the present requirements. The drainage is fairly good. Roadways safe, and all other appointments in a satisfactory condition. This mine was inspected once during the latter part of the year and found satisfactory in every detail.

J. M. CLARK, Gen. Mgr.

GEO. MORAN, Mine Boss.

MANUFACTURERS & CONSUMERS COAL CO.

No. 303. *Newlyn Mine.*—This is a drift mine located on New River

and on the main line of the C. & O. Ry., 48 miles east of Charleston. The seam worked is the Sewell, which averages in thickness from 2 ft. 8 in. to 3 ft. The mining is all pick work and the product handled by mule power all over the mine. The developments are conducted on the double entry system principally. The ventilation is produced by a small furnace, which is barely adequate for the requirements, hence the ventilation, from a general standpoint, is only moderate. The drainage is moderately good except at local points. The condition of all haulways as to general safety is good. This mine was visited and inspected twice during the year, on which occasions the requirements necessary for moving injured workmen, safety lamps, and other material as required by law found on hand, but no special rules were posted.

HARRY THOMAS and P. H. HENRY, Supts.

OKKEY MEADOWS and JAMES W. SIMMS, Mine Bosses.

NUTTALLBURG COAL & COKE CO.

Nos. 304 and 305. *Nuttallburg and Keeney's Creek Mines.*—These are drift mines located on New River and on the main line of the C. & O. Ry., 53 miles east of Charleston. The developments are in the Sewell seam, which varies in thickness at this point from 3 ft. to 4 ft. 8 in. The coal is principally pick mined in both mines. The product is hauled on the main haulways by electric motors. The ventilation is produced by a 16-ft. Crawford & McCrimmon fan, which gives very good results. The drainage is good, as the mines, as a general proposition, make very little water. All haulways are kept in good repair and from a general standpoint have always been found safe in both mines.

Two regular inspections were made of these mines during the year and found on each occasion as stated above. Stretchers, etc., were found on hand as required by law.

L. C. BEIRNE, Supt. B. F. DORSEY, Mine Boss Nuttallburg Mine.

HENRY R. NEAL, Mine Boss Keeney's Creek Mine.

BROWN COAL CO.

No. 306. *Brown Mine.*—This is a drift mine located on the south side of New River on the South Side Branch of the C. & O. Ry., immediately opposite the Nuttallburg Mine. The developments are in the Sewell seam and are conducted principally on the double entry plan. The seam ranges in thickness from 3 ft. to 4 ft. 8 in. The work is all pick mining and the product is hauled by a steam locomotive and mules. The ventilation is produced by an 18 ft. Crawford & McCrimmon fan, which gives very good results. The drainage is moderate as a general proposition. This is a dip mine with irregular grades and making considerable water in some sections. The general safety of all haulways is good. All necessary requirements for immediate and prompt removal of injured workmen are kept on hand, also safety lamps. No special rules have yet been posted at this mine. This mine was regularly inspected three times during the year and found satisfactory on each occasion and apparently safe in all respects.

J. A. BOONE, Supt.

W. A. JONES, Mine Boss.

BOONE COAL & COKE CO.

No. 307. *Boone Mine*.—This is a drift mine located on Keeneys Creek, a tributary of New River, and on the Keeneys Creek Branch of the C. & O. Ry., about three miles from the mouth of the creek and about 57 miles from Charleston. The developments are in the Sewell seam, which for sometime has been very irregular in thickness. A very large territory of thin coal has been run into at this point, ranging in thickness from 12 to 30 inches. Entries have been driven in this character of coal for hundreds of feet. At the present, however, the seam has been reached ranging in thickness from 3 feet 6 inches to 4 feet. The work has been conducted to some extent on the double entry and airway plan. The ventilation for sometime past has been natural to a large extent and not very good in some sections of the mine; now, however, other and better arrangements will be made.

This mine was regularly inspected twice during the year and on each occasion, except at some points in the mine, the ventilation was moderate. Drainage good except at points where pillars were being drawn. The conditions on all haulways from a standpoint of safety were found good. Stretchers, etc., kept on hand as required by law. Other requirements of the mining laws apparently observed in a regular manner.

FRANCIS BOONE, Supt.

ALBERT OHLINGER Mine Boss.

BALLINGER COAL CO.

Nos. 308 and 309. *Ballinger Nos. 1 and 2 Mines*.—These are drift mines located on Keeneys Creek, about one mile above the Boone Mine. The developments are in the Sewell seam and are conducted on the double entry system. The ventilation is produced by small furnaces which give fairly good results. The drainage is good in sections of these mines and moderate in others. This is quite common in this section of the coal field on account of the irregular grades with which to be contended and the light cover that is over the coal seam. In dry weather the mines' roads are dry and in wet weather they are wet. The seam ranges in thickness from 3 feet 4 inches to 3 feet 8 inches, and has a fairly good slate roof. All the coal is produced by pick mining at these mines and at every mine on Keeneys Creek except the Rothwell Mine. The hauling is all done by mule power. All the necessary requirements for the comfortable and speedy removal of injured workmen are kept on hand; also safety lamps. Other provisions as set forth in the mining laws are carefully observed and strictly enforced.

Two regular inspections of these mines were made during the year and on each occasion the conditions were found as stated above and the general safety of the mines was good.

GEO. HOLLAND, Supt.

JOHN OHLINGER, Mine Boss No. 1 Mine.

FRED OHLINGER, Mine Boss No. 2 Mine.

BLUME COAL & COKE CO.

No. 310. *Blume Mine*.—This operation is the last mine on Keeneys Creek and is located about five miles from the mouth of the Creek and 58

miles from Charleston, on the Keeney's Creek Branch of the C. & O. Ry., which has its present terminus at this point. The Sewell seam is worked and all the developments are practically on the double entry system. The seam averages, as a general proposition, 3 feet 8 inches to 3 feet 10 inches in thickness and has a fairly good slate roof. The ventilation is produced by a 10-foot disc fan which gives very good results. The drainage is well provided for and is good from a general standpoint all over the mine. The condition on all haulways in regard to safety is also good. The required provisions for the comfort and welfare of injured workmen, keeping on hand safety lamps, special rules, etc., are all regularly observed and carefully attended.

Two regular inspections were made of this mine during the year, and on each occasion all the appointments were found in good order and satisfactory.

D. W. BOONE, Supt.

THOMAS STEAD, Mine Boss.

SMOKELESS COAL CO.

No. 311. *Smokeless Mine*.—This is a drift mine located on Keeney's Creek. The operations are in the Sewell seam, which averages about four feet in thickness at this point. The developments are principally on the entry and airway plan. During the year this operation has been practically re-opened at another point and most of the old workings suspended, probably indefinitely. The ventilation is natural and only moderate. Drainage is also moderate. Better results will no doubt be accomplished in the new work as it is on the dip side of the property. The general conditions existing on all haulways are safe. This mine has a very bad roof, which has to be carefully timbered, which has been regularly and carefully done.

Two regular inspections were made of this mine during the year, and on those occasions the conditions existing were as set forth above. All other arrangements were very satisfactory.

J. D. CAMPBELL, Supt.

W. R. HALL, Mine Boss.

ROTHWELL COAL CO.

Nos. 312 and 313. *Dubree & Quarrier Mines*.—These are drift mines located on Keeney's Creek, about half a mile above the Smokeless Mine. The operations are in the Sewell seam, which is 3 feet 8 inches to 4 feet in thickness. The Dubree Mine has a sandrock roof and the Quarrier Mine, which is on the opposite side of the creek, has a slate roof. Both mines are developed on the double entry system and are ventilated with furnace power which gives only moderate results on account of the furnaces being inadequate for the amount of territory covered by the operations. The Dubree Mine is dry, and in some sections dusty. The Quarrier Mine is the reverse, going to the dip and wet, all water having to be pumped out. The coal is mined by electric machines principally in the Dubree Mine, and by pick in the Quarrier Mine when it is in operation. It has, however, been idle, practically speaking, ever since the strike and preparations are being made to start it up again in the near future. The general safety of both these mines is good. All necessary provisions as required

by law for taking care of any workmen who may be injured, keeping on hand safety lamps, posting special rules, etc., are duly observed and strictly enforced by this company.

These mines were regularly inspected twice during the year and found as stated above, and from a general standpoint were satisfactory.

H. H. ROTHWELL, Supt.

CHARLES HIGGINS, Mine Boss.

CHAPMAN IRON, COAL & COKE CO.

Nos. 314 and 315. *North and South Victoria Mines.*—These are drift mines located immediately opposite each other on New River. The product of both mines are shipped over the main line of the C. & O. Ry. The Sewell seam is worked and averages in the North Mine about four feet and in the South Mine it ranges from 3 feet 6 inches to 4 feet. The developments are principally conducted on the double entry plan. The ventilation in North Mine is produced by a small furnace which gives very poor results. This mine is now only worked on a small scale, the bulk of the property being exhausted. The drainage is poor, roadways wet and muddy.

The South Mine is ventilated by a 12-foot Crawford & McCrimmon fan, which gives fairly good results. The drainage is moderately good except at some points. The general condition of the haulways in both mines is good and apparently safe. The product is hauled on main haulways by a third rail electric motor.

The North Mine was inspected on two occasions and the South Mine three times during the year and from a general standpoint were found satisfactory. The law in regard to keeping on hand stretchers, safety lamps, etc., is properly observed and apparently regularly attended.

CHARLES TIPPET and U. K. CUSTRED, Supts.

GEO. MORAN and ED. LITTLEJOHN, Mine Bosses North Mine.

BEN SCHWILINGER and ED. GORDEN, Mine Bosses South Mine.

No. 316. *Elverton Mine.*—This is a drift mine located on New River, 53 miles east of Charleston on the South Side Branch of the C. & O. Ry. The Sewell seam is mined and averages about 3 feet 6 inches in thickness. The ventilation is produced by a 10-ft. fan, which gives very good results. The drainage is good. General safety of the haulways is good. All product is hauled by third rail electric motors. Stretchers, safety lamp and other requirements of the Mining Laws kept on hand. No special rules are posted.

Three regular inspections were made of this mine during the year, and on each occasion the conditions were as set forth above and satisfactory except in regard to special rules.

U. K. CUSTRED, Supt.

BEN STEINBRECHER and J. W. HUNT, Mine Bosses.

No. 317. *Central Mine.*—This mine is located on the main line of the C. & O. Ry., and the developments are in the Fire Creek seam, which averages in thickness about 2 feet 8 inches to 3 feet. The ventilation is produced by a 10-foot fan and is good. The drainage is good. All haulways are safe and properly timbered where needed. Two inspections were made

of this mine during the year. During the latter part of the year the mine has been idle for several months.

U. K. CUSTRED, Supt.

H. CAMPBELL, Mine Boss.

LONGDALE IRON CO.

No. 318. *Cliff Top Mine*.—This is a drift mine located on Manns Creek, nine miles north of the town of Sewell and 64 miles east of Charleston. The developments are in the Sewell seam and at this point the seam is very thin, averaging about 2 feet 8 inches to 2 feet 10 inches in thickness. For the greater part of the year this mine has been suspended on account of the depression and low selling prices which have prevailed. This company has a number one plant, including 197 Bee Hive coke ovens. The company owns its own road, nine miles in length, leaving the C. & O. main line at Sewell. Two steam locomotives and coal cars, etc., the equipment of the road, and yet, with these advantages, coal for the furnaces has been purchased cheaper, it would appear, than they could produce it, hence the works have been shut down indefinitely, notwithstanding the Company owns large tracts of coal land yet undeveloped in this section. This mine was not visited during the year on account of its being idle.

PENNSYLVANIA & NEW RIVER COAL CO.

No. 319. *Kohinoor Mine*.—This is a drift mine on Big Fire Creek about one and a half miles above Sewell. The developments are in the Fire Creek seam and as yet are very limited. Coal has been shipped only during the past three weeks. The seam at this point is somewhat irregular and ranges in thickness from 2 feet 8 inches to 4 feet. Several dwelling houses, store house and other improvements of an up-to-date character have been built. There is every prospect that should the seam prove encouraging this operation will in a short time be one of the many important New River operations.

GEO. SCOTT, Supt.

ROBT. ALDRIDGE, Mine Boss.

THE NEW RIVER SMOKELESS COAL CO.

Nos. 320 and 321. *Cunard & Brooklyn Mines*.—These mines are located on the south side of New River, immediately opposite the Town of Sewell, 55 miles east of Charleston. The Sewell seam is mined and the developments are conducted on the double entry system. The seam in both mines ranges in thickness from 3 feet 8 inches to 4 feet 8 inches as a general rule.

The ventilation in the Cunard Mine is natural. This is very fair. The main straight entry has been driven clear through the mountain and entries at other points have also been holed to daylight with considerable difference of elevation. The drainage is also fairly good. Haulways in general are safe. Roof is good. All the coal is pick mined in this mine.

The Brooklyn Mine is located about one mile east of the Cunard Mine. The developments are in the same seam. The ventilation is produced by a 10-foot disc fan, which gives good results. The drainage is not very good in this mine except at local points. The condition of all haulways in regard to timbering and general safety is good. All necessary equipment,

as required by law, for the immediate removal of injured workmen, safety lamps, etc., kept on hand and in readiness for any emergency. These mines were regularly inspected four times during the year and on each occasion the conditions were found as set forth above.

JOHN LAING, General Supt. JAMES LAING, Mine Boss Brooklyn Mine.

JOHN PERFATER, Mine Boss Cunard Mine.

Nos. 322 and 323. *Red Ash & Rush Run Mines*.—These are drift mines located on the south side of New River on the South Side Branch of the C. & O. Ry., 60 miles east of Charleston and about two and a half miles west of Thurmond. The developments of both mines are in the Fire Creek seam, which at this point is unusually thick for this seam, ranging in thickness from 3 feet 6 inches to as much as 7 feet in some instances. The main advance headings have gone steadily to the dip at a grade of about 2 per cent. The branch entries in both mines have always been more or less irregular in regard to grades. During the progress of these operations several severe rock faults have been encountered and explosive gas in varying quantities has been generated in both these mines ever since they were first opened. Notwithstanding the fact that the workings of both mines are over 400 feet above the water level of the community in which they are located, these mines have until recently been unusually free from water, consequently they were more or less dusty. In addition to this, almost all mining has been done by machinery which created much more fine dust than is usual in mines where pick miners are employed.

The developments and equipment of these mines have always been of an up-to-date character in every respect. The main headings were driven three abreast for many years and recently a fourth has been added. All cross-entries was driven double. The roof is unusually good and there have never been any falls of slate in any of the airways of either mine of any importance. All the stoppings and overcasts along the lines of main intake were regularly built with stone and mortar and in the most substantial manner, and made as near as practical air tight. The ventilation is created by two 11-foot Capell fans of the latest pattern. These fans are run regularly night and day without intermission, causing, as past records show, from 90,000 to 100,000 cubic feet of fresh air per minute to pass separately and not continuous through each of these mines. The records will also show that at the heads of all main and important advancing entries that volumes of air ranging from 10,000 to 20,000 cubic feet of air per minute were passing those points and the water guage never registers more than $1\frac{3}{4}$ inches, which conclusively demonstrates that the airways have been carefully attended and kept in good form. When it is taken into consideration that these mines were first opened in 1887 and have been in continuous operation about 18 years and the extent of the developments, which cover an area of not less than 1,100 acres; first-class fire bosses have been regularly employed at these mines during the past years, who not only knew their business as fire bosses but were men of temperate habits and of a studious and ambitious disposition, two of whom have lost their lives in these mines over which they had charge, and notwithstanding all the above facts and that these mines are high up on the mountain, more than 400 feet above water level, yet there have been through some cause two of

the most severe explosions, attended with the greatest loss of human life in these two mines, that have yet occurred in this State.

On the 6th day of March, 1900, forty-six lives were lost in the Red Ash Mine. At that particular date these two mines were separate, having no connection with each other. Since that date they have been connected by the cutting of several entries through the barrier pillar.

On Saturday night, the 18th day of March, 1905, five hours after the mine had ceased operation for the day, an explosion occurred in the Rush Run Mine by which eight men in the Rush Run Mine lost their lives. The explosion extended through into the Red Ash Mine, where five more men lost their lives. In an attempt to rescue these men, after the explosion had occurred, eleven men entered the Rush Run Mine. As to whether they had made the necessary and proper arrangements for their own safety or not seems doubtful. They, however, were lost in a second explosion, making in all twenty-four lives lost in this second disaster at these two mines.

These mines were regularly inspected three times between the months of July and March, and on each occasion were found in their normal conditions and apparently safe from every standpoint under all ordinary conditions. Every requirement of the Mining Laws was being observed, special rules were properly and conspicuously posted. The company had special forms printed, issued daily, on which their fire bosses and mine foremen were to make their daily reports which the evidence showed had been regularly done, whether the mine was in operation or not.

There are hundreds of our oldest and most experienced miners, including among them many of our mine bosses, who cannot be induced to believe that explosions of so serious a character as those which occurred at these collieries can be brought about by dust principally. If any method could be devised by which this danger could be practically demonstrated on a small scale in the shape of a public exhibition among our mining people of all grades, it would undoubtedly be the most effective education in regard to this danger that could be adopted.

These mines are now in full operation and in good condition from every standpoint.

F. HOWALD, General Manager.

JOHN LAING, General Supt.

THOMAS SUTTON, Mine Boss, Red Ash Mine.

THOS. DAVIS and WILL LAING, Mine Bosses, Rush Run Mine.

JAMES McDONALD, Fire Boss, Rush Run Mine.

JAS. REISBACK and THOS. FRECKELTON, Fire Bosses Red Ash Mine.

THE NEW RIVER SMOKELESS COAL CO.

Nos. 324, 325 and 326. *Sun Slopes Nos. 1 and 3 and Sun Shaft No. 2 Mines.*—Two of these mines are operated by slopes and one by shaft and they are all located on Big Loup Creek Branch of the C. & O. Ry., eight miles south of Thurmond and 73 miles from Charleston. The operations are in the Sewell seam, which at this point is 70 feet below water level. The developments are all conducted on the most up-to-date principle of mining. All main advancing entries are driven three and four abreast.

The cross, or right angle, entries are all double. The seam averages, as a general proposition, from 4 feet 6 inches to 5 feet 6 inches in thickness. The main dividing stoppings between the intake and return airways are built of incombustible material, such as slate and other material of this character and laid in mortar or cement. The ventilation is produced by a 12-foot Capell fan, which gives excellent results. The grades are fairly uniform all over the mines and the drainage, as a general proposition, is good. The roof is good and the general safety and other conditions of all haulways are good and apparently safe in every detail. All requirements in accordance with the Mining Laws in regard to the removal of injured workmen, safety lamps, posting of special rules, etc., are regularly observed and rigidly enforced.

JOHN LAING, General Supt.

JAMES MARTIN, Mine Boss.

JOHN McMILLAN, WM. HERON and WM. COPE, Fire Bosses.

FIRE CREEK COAL & COKE CO.

No. 327. *Fire Creek Mine.*—This is a drift mine located on the main line of the C. & O. Ry., 58 miles from Charleston and about three and a half miles west of Thurmond. It was one of the earliest operations on New River. The developments are in the Fire Creek seam, the thickness of which, at this point, has never exceeded four feet, and most of the territory developed contained the seam ranging in thickness only from 2 feet 8 inches to 3 feet 6 inches. The grades have been irregular. The developments, as a general proposition, have been conducted on no regular plan, having been adopted to suit the conditions as they developed. The ventilation has been produced by a 16-foot fan, but of late, since openings were made on Buffalo Creek at an altitude of 150 feet above the main front openings, it is natural and natural ventilation is now better than the fan power. The drainage is good, there being only enough water made to keep the roadways moist. The general safety of the haulways is good. Two regular inspections of this mine were made during the year and on each occasion the conditions existing were found satisfactory. Stretchers, safety lamps and other requirements were found on hand as required.

G. H. CAPERTON, Supt.

ZEB ARRINGTON, Mine Boss.

ECHO COAL & COKE CO.

No. 328. *Echo Mine.*—This is a drift mine located on the main line of the C. & O. Ry., 60 miles east of Charleston and on the north side of New River. The developments are in the Fire Creek seam, which averages in thickness about four feet. This is one of the oldest operations on New River. The greatest bulk of the territory comprising this lease is worked out and what developments are now being made are principally on the entry and airway plan and are nearing the lease lines at all points. The ventilation is produced by a 12-foot Crawford & McCrimmon fan, which is inadequate for this mine and the distance the air currents have to travel. This condition, however, is somewhat relieved occasionally by the holing through into the neighboring mines. The mine makes very little water, just enough, as a general proposition, to keep the haulways and other places damp and moist. The general condition of the haulways in regard to safety from all causes is fairly good.

Three regular inspections were made of this mine during the year and on each occasion the mine was found safe in all its appointments.

H. B. BEURY, Supt.

W. C. ROWE, Mine Boss.

THE THURMOND COAL CO.

Nos. 329 and 330. *Thurmond No. 1 and Erskine No. 2 Mines.*—These are drift mines located on the south side of New River and on the South Side Branch of the C. & O. Ry., about one mile west of Thurmond and 60 miles east of Charleston. The Sewell and Fire Creek seams are worked. The Sewell seam is very regular at this point averaging from 4 feet 4 inches to 4 feet 8 inches. The roof is slate and good. The developments are all conducted on the double entry system. The ventilation in the No. 1 Mine is produced when necessary by a 7-foot high speed disc fan. The main straight headings are clear through the mountain and as there is quite a difference in the level between the points, natural ventilation on some occasions is all that is required. The drainage is fairly good in some sections and very moderate in others. The developments of the No. 2 or Erskine Mine are in the Fire Creek seam and are conducted on the double entry system. Very little, however, has been done in this mine for some time on account of having struck severe sandrock faults at several points. The ventilation in this mine is poor. No arrangements of a permanent or reliable nature have yet been installed. The general conditions in regard to safety on all haulways is good in both mines, being properly timbered where needed and reasonably clear of loose slate, etc.

These mines were visited on two occasions and inspected when they were found as above stated. All necessary requirements for moving comfortably and expeditiously any workmen who may be injured, safety lamps, etc., were found on hand as required by law.

G. H. CAPERTON, General Manager.

W. M. WARWICK, Supt.

OTHO PRICE, Mine Boss, Thurmond Mine.

JOHN PRICE, Mine Boss, Erskine Mine.

STONE CLIFF COAL & COKE CO.

No. 331. *Stone Cliff Mine.*—This is a drift mine located on New River and on the main line of the C. & O. Ry., about two miles east of Thurmond. The developments are in the Fire Creek seam which is about three feet thick on an average, with occasional pockets of coal somewhat thicker. The ventilation is produced by a furnace which gives fairly good results. The developments at present are somewhat limited, the old workings having been abandoned recently and new openings made. The drainage is fairly good. The general safety of all haulways is good and all necessary appliances for removing injured workmen and other equipment as required by law were found on hand. This mine was inspected on two occasions during the year and found, from a general standpoint, safe and satisfactory.

THOS. C. BEURY, General Manager.

SANDY THOMPSON, Mine Boss.

J. H. DEMPSEY, Supt.

THE BEECHWOOD COAL & COKE CO.

Nos. 332 and 333. *Beechwood No. 1 and Keystone No. 2 Mines.*—These are drift mines on New River and on the main line of the C. & O. Ry., about three miles east of Thurmond. Both operations are in the Fire Creek seam, which averages in thickness about 4 to 5 feet. The developments are conducted on a mixed system of double and single entry. The ventilation is principally natural, although there is a 12-foot Crawford & McCrimmon fan installed at the Beechwood Mine, which is oftener standing idle than running. These mines are connected and are jointly ventilated. On some occasions the ventilation is fairly good and on others very moderate. This latter condition of affairs never fails when natural ventilation is depended on. The drainage in the Beechwood Mine is fairly good and in the Keystone Mine, bad. The condition of haulways in regard to timbering and safety in general is good.

These mines were regularly inspected three times during the year and found in the conditions as above stated. Section 10, of the Mining Laws, says in part: that it shall be unlawful in all mines where gas is being generated to use any other power for ventilation purposes except fan power or the equal thereof. It might be a fine question to define what this "equal thereof" should be if such a case had to be decided by our legal talent before one of our honorable judges. It seems to me this section should be changed to read, "All mines shall be ventilated by fan power during the period of time that any workmen are employed therein, unless written permission be given by the District Inspector to ventilate otherwise, and in mines generating gas the ventilation shall be kept up night and day unless written permission be given by the Inspector to stop fans for repairs or other necessary purposes." Just as long as operators and mine bosses are allowed to use largely their own discretion as to the methods of ventilation they may personally adopt, so long will there be temporary and local instances of deficiency in ventilation and dissatisfaction among our mining classes.

C. C. BEURY, General Manager.

R. B. HANNA, Mine Boss.

ALASKA COAL & COKE CO.

No. 334. *Alaska Mine.*—This is a drift mine located on the main line of the C. & O. Ry., four miles east of Thurmond. The developments are in the Fire Creek seam and are conducted on the double entry and single entry systems. The seam at this point has been very irregular in thickness and grades for sometime, ranging from 2 feet 6 inches to 4 feet 6 inches. The seam has also been very much intersected with rolls, in many instances almost cutting the seam entirely out for short distances. This has caused a great deal of trouble to the management and been very detrimental to keeping the ventilation arrangements of the mine in the desired conditions. The ventilation is produced by an 8-foot disc fan, and where the mine is in proper shape and the break-throughs in proper place, it is fairly good. The drainage is fairly good. General safety of all haulways, etc., good. All other requirements, such as the keeping on hand of stretchers, safety lamps, etc., are complied with.

This mine was visited and inspected on two occasions during the year

and found, considering the unusual disadvantages with which to be contented, in a fairly satisfactory condition.

GEO. LAWTON, Supt.

S. W. PETERS, Mine Boss.

RIDGEVIEW COAL CO.

No. 335. *Ridgeview Mine*.—This is a drift mine located on the main line of the C. & O. Ry., on New River, eight miles east of Thurmond and 68 miles east of Charleston. The developments are in the Fire Creek seam, and at present, as they have been for years, on a small scale. They are now being conducted on a more regular system. The seam of late has been somewhat more regular in thickness, ranging from 3 feet to 3 feet 8 inches, with much more uniform grades than they have heretofore had. The drifts which are now being operated are new openings and the ventilation is as yet produced by small makeshift furnaces, which for the amount of development serve fairly well. The drainage is moderate. Haulways are very much like all roadways in small mines. They are safe and properly timbered, but cramped for room and in some sections very much gobbled up on the sides.

Two regular inspections were made of this mine during the year and on each occasion the conditions were found as noted above. Stretchers and other requirements were found on hand. No special rules were posted.

JOHN DEMPSEY, Supt.

JOHN HARRIS, Mine Boss.

EPHRAIM CREEK COAL & COKE CO.

Nos. 336 and 337. *Buffalo & Slater Mines*.—These are drift mines located on New River and on the C. & O. Ry. main line. The developments of both mines are in the Fire Creek seam and are conducted on the double entry system. The seam at this point ranges in thickness from 3 feet 6 inches to 4 feet. The ventilation is produced by an 8-foot disc fan, which gives good results. These mines as yet make very small quantities of water and the drainage is well provided for. The roof is good and all conditions on the roadways in regard to general safety are good. Three regular inspections of these mines were made during the year and on each occasion the conditions were found as above stated. All necessary arrangements as prescribed by law in regard to the removal of injured workmen, keeping on hand safety lamps, posting of special rules, etc., were being duly observed.

HENRY BROOKE, General Manager.

T. L. PUGH, Mine Boss.

HARVEY COAL & COKE CO.

Nos. 338 and 339. *Harvey Nos. 1 and 2 Mines*.—These are drift mines located on Big Loup Creek Branch of the C. & O. Ry. The developments are in the Sewell seam which ranges in thickness from 3 to 5 feet. In some sections of both these mines, the roof is slate and in others sand-rock. The ventilation in both mines is produced by fan power. The No. 1 Mine is very well ventilated, there being several openings near the head of the advance workings at which points the fresh air is taken in. The No. 2 Mine is very moderately ventilated, the fan being inadequate for the

requirements. I requested, sometime ago, that this fan be replaced by a more powerful fan. On my last visit to this mine I was informed that a new fan had been ordered and will be installed as soon as it practically can, which I think will be done. The drainage in both mines is fairly good. The general conditions on all haulways in regard to safety are good. They are well and substantially timbered where necessary and ample room at all points for refuge. All necessary ambulance arrangements and otherwise requirements are kept on hand in proper form and at proper points. These mines were visited and inspected on two occasions during the year and except the ventilation in the No. 2 Mine, were found satisfactory in every detail.

A. P. GIBSON, Supt.

JAMES McCALLISTER, Mine Boss.

PRUDENCE COAL CO.

No. 340. *Prudence Mine*.—This is a drift mine located on Big Loup Creek Branch of the C. & O. Ry., four miles south of Thurmond and 67 miles east of Charleston. The operations are in the Sewell seam, which ranges in thickness from 4 feet to 5 feet 6 inches. The roof in some sections is slate and bad, cutting very much on a majority of the entries and having to be timbered securely in the rooms to make them reasonably safe. The developments are strictly on the double entry system. The ventilation is produced by two 10-foot fans, which give very good results. The drainage, as a general proposition, is good. All motor roads and other haulways are kept in good shape and the general safety thereof at all points is good. All in all, the arrangements and various appointments of this operation are in good condition and up-to-date in every respect.

This mine was inspected three times during the year and on each occasion found satisfactory in every detail. All requirements for moving speedily and comfortably any injured workmen, keeping on hand safety lamps and other requirements are kept on hand as required by law. Two new drifts are being developed on this lease.

H. A. MOSELEY, Supt.

W. S. WILLIAMSON, Mine Boss.

STAR COAL & COKE CO.

No. 341. *Star mine*.—This is a drift mine located six miles south of Thurmond on the Big Loup Creek Branch of the C. & O. Ry., and 69 miles east of Charleston. The Sewell seam is worked and it ranges in thickness from 4 to 5 feet. The developments are on the double entry system. The ventilation is produced by a 12-foot Capell fan, which gives very good results. The ventilation arrangements, including doors, stoppings and otherwise connections of the system are kept in first class order. The drainage is good, considering that this is a dip mine. The roof, as a general proposition, is good and the conditions of all haulways in regard to general safety are good. All requirements are kept on hand according to law, special rules, posted, etc.

Three regular inspections were made of this mine during the year and on each occasion the mine was found satisfactory in every detail.

GEORGE W. JONES, Supt.

DAVID EVANDOLL, Mine Boss.

SIDNEY HILLDITCH, Fire Boss.

COLLINS COLLIERY CO.

Nos. 342 and 343. *Collins Nos. 1 and 2 Mines*.—These are drift mines located on the Big Loup Creek Branch of the C. & O. Ry., eight miles south of Thurmond and about 72 miles east of Charleston. The developments are all in the Sewell seam, which ranges in thickness from 4 to 5 feet and has a roof that is sandrock in some section and slate in others. All work is conducted on the double entry system. The ventilation is produced by two 16-foot Crawford & McCrimmon fans, which give very satisfactory results. The drainage is natural and good all over both mines. The general safety of all haulways is good and they are properly timbered and free from loose slate or obstructions.

Three regular inspections were made of these mines during the year and on each occasion the ventilation and other appointments were found in a satisfactory condition. All necessary requirements for the removal of any workmen who may be injured, safety lamps, posting of special rules, etc., as required by law, were being observed and enforced.

GEO. DANIELS, Supt.

G. HILDITCH, Mine Boss.

WHIPPLE COLLIERY CO.

No. 344. *Whipple Mine*.—This is a shaft mine located on the White Oak Branch of the C. & O. Ry. This branch line leaves the Big Loup Creek Branch at Glen Jean, eight miles south of Thurmond. This operation is situated about four miles northwest of Glen Jean. The shaft is 440 feet to the seam. The developments are on the double and triple entry systems and are in the Sewell seam, which ranges in thickness from 4 to 5 feet 6 inches. The ventilation is produced by a 16-foot Capell fan capable of furnishing at least 250,000 cubic feet of air per minute when necessary to do so. The drainage is accomplished by steam and electric pumps and is good. The roofing conditions are good and the general safety of all haulways, good, as they are well and properly timbered and in good shape from every standpoint of safety. All hoisting engines, shaft head frames and other shaft equipment in general are substantial, up-to-date in every respect, and when inspected on three occasions during the year were found in first class condition. All necessary requirements according to law in regard to the removal of injured workmen, safety lamps, posting of special rules, etc., were on hand and in proper condition.

GEO. DANIELS and JAMES CLARK, Supts.

ROBERT WATSON and MATHEW CHARLTON, Mine Bosses.

JAMES WASTENHOLM, Fire Boss.

McKELL COAL & COKE CO.

Nos. 345, 346, 347, 407, 408 and 409. *Kilsyth, Derryhale, Oswald, Graham, Sidney and Laura Mines*.—These are all drift mines located on the Big Loup Creek Branch of the C. & O. Ry., about 13 to 15 miles south of Thurmond and 78 miles east of Charleston. All these operations are in the Sewell seam and are conducted on the double entry system. The seam ranges in thickness from 4 to 5 feet. The ventilation arrangements at the various mines are of a mixed character and are in proportion to the requirements of the developments and the number of workmen employed in

each separate mine. The Kilsyth Mine is equipped with a 16-foot Capell fan, capable of furnishing at least 250,000 cubic feet when necessary. The Derryhale Mine is equipped with an 8-foot disc fan of a capacity of about 40,000 cubic feet. The Oswald, Graham, Sidney and Laura Mines, which are not as yet very largely developed or permanently equipped, have small temporary furnaces which will later on be supplanted by fan power suitable for future requirements. The drainage in all these mines is well attended and is all that could be desired in each separate mine. The roofing conditions of each of these mines are of a mixed character, that is to say, sandrock and slate, usually good except at local points. The general safety of all of the haulways in these mines has been found good on all occasions when inspected. Each of these mines were inspected three times during the year. All necessary provisions for immediate attention to injured workmen, posting of special rules, keeping on hand safety lamps, etc., were found as required by law. The Derryhale, Kilsyth and Laura Mines are in Fayette County, and the Oswald, Graham and Sidney Mines are in Raleigh County.

THOMAS NICHOL, General Manager.

G. SMITH, Supt., Derryhale Mine.

A. H. LEWIS, Supt., Kilsyth Mine.

E. A. TREVOR, Supt., Laura Mine.

A. J. MAIN, Supt., Oswald, Sidney and Graham Mines.

THOS. A. LEWIS, Mine Boss, Derryhale Mine.

THOS. T. LEWIS, Mine Boss, Kilsyth Mine.

A. L. NELSON, Mine Boss, Laura Mine.

G. B. SMEDLEY, Mine Boss, Graham Mine.

JOHN FENWICK, Mine Boss, Oswald and
Graham Mines.

DUNN LOOP COAL & COKE CO.

Nos. 348 and 349. *Dunloop Nos. 1 and 2 Mines.*—These mines are drifts located on Big Loup Creek Branch of the C. & O. Ry. The developments are in the Sewell seam which ranges in thickness from 4 to 6 feet. The work is conducted on the double entry system as a general rule. The No. 1 Mine is pillar work. The ventilation in the No. 1 Mine is natural and considering the condition and number of miners employed, it is in a satisfactory condition. The ventilation of the No. 2 Mine is produced by a 10-foot disc fan, which has a capacity of about 40,000 cubic feet per minute. This would give very satisfactory results, provided the doors, stoppings and airways were closely attended. The roof is very bad in this mine and falls heavily and especially so in the old workings through which the air currents have to pass. When last inspected the airways were found in a bad condition. An entry, however, was being driven which was very close to daylight and when completed will be used for an airway outlet which will be a very important improvement to the ventilation of this mine, and cut off all back airways and make a direct current around the face of the present workings. The general safety of all haulways is good, as a general proposition. The slate is taken down on all entries up to the solid roofing.

Two inspections were made of these mines during the year and on each occasion the ventilation in the No. 2 Mine was found moderate as a general rule. The general safety good. Stretchers, safety lamps and other requirements kept on hand.

JAMES MCGUFFIN, Supt.

PERRY GORMAN, Mine Boss, No. 1 Mine.

JOHN FILBIN, Mine Boss, No. 2 Mine.

NEWLYN COAL & COKE CO.

No. 350. *Newlyn Mine*.—This is a drift mine located on the Big Loup Creek Branch of the C. & O. Ry., about one mile from Thurmond. The developments are in the Fire Creek seam. The seam as yet averages about 3 feet to 3 feet 6 inches in thickness. The work is on the double entry system and as yet is very limited, having only shipped coal a very short time. This mine was inspected twice during the latter part of the year and found satisfactory in every detail.

EDWARD THOMAS, Supt.

JOHN THOMAS and GEO. BURDISS, Mine Bosses.

THE DUNGLLEN COAL CO.

No. 351. *Dunglen Mine*.—This is a drift mine located on Big Loup Creek Branch of the C. & O. Ry., about one mile from Thurmond. The operations are in the Sewell seam and as yet are on a small scale. The seam ranges in thickness from about 4 feet to 4 feet 6 inches, and has a very moderate slate roof. The ventilation is natural. No arrangements of a permanent character have as yet been made. The drainage is very moderate. The general safety of the haulways is good. The draw slate is taken down and the roadways properly timbered.

This mine was inspected once during the latter part of the year. Stretchers and blankets were found on hand. No special rules posted as yet.

LEO SCHAFFER, Supt.

J. C. FENEMORE, Mine Boss.

THE TURKEY KNOB COAL CO.

No. 352. *Turkey Knob Mine*.—This is a drift mine located on Big Loup Creek. The Sewell seam is worked. The method of development is double entry. The seam ranges in thickness from 4 feet to 5 feet 6 inches. The mine is situated 11 miles south of Thurmond and 74 miles east of Charleston. The ventilation is produced by a 10-ft. disc fan, which gives very good results. The intake openings are at the back of the mountain and the fan is at the front. The drainage, as a general proposition, is good. The roof is sandstone in some sections and in others is slate and is fairly good, as a rule. The haulways are well and securely timbered where necessary and the general safety of the mine is good.

Two regular inspections were made of this mine during the year and the conditions found were satisfactory, and all arrangements apparently safe. The appointments in regard to accidents, etc., were found on hand and at a proper location.

FRED D. SETTLE, Supt.

JOHN ORD, Mine Boss.

THE MACDONALD COLLIERY CO.

No. 353. *Macdonald Mine*.—This is a drift mine located on the Big Loup

Creek Branch of the C. & O. Ry., 11 miles south of Thurmond and 74 miles east of Charleston. The operations are in the Sewell seam, which averages in thickness from 4 feet to 5 feet 6 inches. The developments are all conducted on the double entry system. The ventilation is produced when necessary by an 8-foot high speed fan. The main entries are holed clear through the mountain at various points and at a distance of over a mile the elevation between those points is over 100 feet, making a good circulation during hot and cold periods without the use of the fan. The mine makes only enough water, as a general proposition, to keep the roadways in a moist condition except at very isolated points. The roof is of a mixed character, slate and sandrock. The haulways, generally speaking, are very safe. Two regular inspections were made of this mine during the year and on each occasion the conditions existing were found satisfactory and apparently safe in every detail.

F. W. SCARBOROUGH, General Manager. V. A. MILLER, Mine Boss.

SUGAR CREEK COAL & COKE CO.

No. 354. *Sugar Creek Mine.*—This is a slope mine located on the Big Loup Creek Branch of the C. & O. Ry., about one mile above the Macdonald Mine. The operations are in the Sewell seam, which averages about 5 feet to 5 feet 6 inches in thickness. The roof is principally slate and only moderate. The mine dips and makes considerable water which has to be all handled with pumps and water boxes which makes the drainage moderate in many sections of the mine. The ventilation is produced by an 8-foot disc fan, which gives very good results and the mine is fairly well ventilated. The haulways are well timbered and the loose slate overhead kept as safe as possible. The general safety of the mine is good.

This mine was visited and inspected twice during the year and on each occasion was found in a safe and satisfactory condition considering the nature of the roof in general with which to contend and the water problem. The requirements of the law for moving speedily and comfortably injured workmen, and the safety lamps are kept on hand and at proper points.

F. W. SCARBOROUGH, General Manager. T. L. RAMEY, Mine Boss.
N. S. BLAKE, Supt.

PRICE HILL COLLIERY CO.

No. 355. *Price Hill Mine.*—This is a shaft mine on Big Loup Creek about one mile above the town of Mt. Hope. Two shafts are now being sunk to the Sewell seam. The railroad from Macdonald to this point is also being built and will be completed in a short time, all grading being now completed, and the bridges and culverts are now being put in.

F. W. SCARBOROUGH, General Manager.

MT. HOPE COAL & COKE CO.

No. 356. *Mt. Hope Mine.*—This is a drift mine which is just being opened.

A. P. BAILEY, Supt.

THE WHITE OAK FUEL CO.

Nos. 357, 358, 359, 360 and 361.—*Scarbro Nos. 1 and 2, Wingrove, Carlisle, and Oakwood Mines.*—These five mines are shafts located on The White Oak Branch of the C. & O. Ry. The operations are all in the Sewell seam, which varies in thickness in this section of the New River Field from 4 feet to 5 feet 6 inches. The Wingrove Shaft is located about one mile from Glen Jean, depth of shaft to seam, 182 feet. The developments are conducted on the double entry system. On the east side of the mine the roof is sandrock and on the west side, slate. This mine generates explosive gas in small quantities. The ventilation is produced by a Pittsburg fan, known as the Robinson fan, 20 feet in diameter and a 10-foot blade guaranteed to produce 300,000 cubic feet of air per minute with 4-inch water guage. The mine makes considerable water and the drainage is accomplished by steam pumps. The haulways in regard to general safety are very good. All the shaft equipments, except the hoisting engines, are temporary. The permanent structures are now being installed. The present equipments are substantial and in good order and apparently safe in every detail.

The Scarbro Shafts are located about two and a half miles from Glen Jean and the No. 1 is 440 feet deep to the seam. The developments are conducted on the double and triple entry systems. The hoisting engines and all the shaft equipments are substantial, in good repair and up to date from every standpoint. The ventilation since the operation was first opened has been produced by a 10-foot Bullitt fan, which has not given the satisfaction it was guaranteed to give, the result has been that for some time the ventilation has been very unsatisfactory. At present a new 18-foot Capell fan is being installed and will be in operation in a short time. This fan is guaranteed to produce 300,000 cubic feet of air per minute with a 4-inch water guage. The ventilation arrangements, such as doors, stoppings, etc., are in very good condition. The drainage is accomplished by steam and electric pumps and is fairly good all over the mines. The conditions in regard to general safety of all underground arrangements, including haulways and otherwise, good.

The Carlisle and Oakwood Shafts are 440 feet in depth to the seam and the ventilation of these mines is conducted jointly, and produced by a 10-foot Bullitt fan. Coal is hoisted out of both shafts, but as yet the developments are not very extensive and the ventilation is fairly good. The shaft equipments, including hoisting engines, head house arrangements, etc., are substantial, in good order in every respect and up to date. The developments are on the double and triple entry systems. The drainage in both mines is accomplished by steam and electric pumps and is fairly good. The roof in some sections and especially so on the west side of these mines is sandrock, in other sections slate. The haulways, from a general standpoint, are in good, safe condition.

Two regular inspections were made of the Wingrove Shaft during the latter part of the year, as no coal was shipped in the forepart of the year, and on each occasion the conditions were satisfactory.

Four regular inspections were made of the Scarbro, Carlisle and Oak-

wood Mines during the year and all existing conditions were satisfactory except the ventilation at Scarbro. This brought about the installation of the new Capell fan. At all these mines the necessary arrangements and requirements are on hand for cases of an accidental character and otherwise.

F. W. SCARBOROUGH, General Manager.

J. W. WILSON, Supt., Scarbro Nos. 1 and 2 and Wingrove Shafts.

G. R. KREBS, Supt. Carlisle and Oakwood Shafts.

RALPH BRABBAN, Mine Boss, Scarbro No. 1 Shaft.

WM. BRABBAN, Mine Boss, Scarbro No. 2 and Wingrove Shafts.

JAMES ROBINSON, Mine Boss, Carlisle Shaft.

WM. ELLIS, Mine Boss Oakwood Shaft.

FRED DIXON, SR., Fire Boss, Scarbro Nos. 1 and 2 Shafts.

GEO. SCOTT, Fire Boss, Wingrove Shaft.

WM. DIXON, Fire Boss, Carlisle and Oakwood Shafts.

STUART COLLIERY CO.

Nos. 362, 363 and 364. *Parral and Stuart Shaft and Beech Creek Mines.*—The Parral and Stuart Mines are shafts. Parral, 685 feet, and Stuart, 568 feet in depth. The developments are in the Sewell seam which ranges in thickness from 4 feet to 4 feet 8 inches. These mines are located on The White Oak Fuel Co.'s private line connecting with the C. & O. Ry.'s White Oak Branch at Carlisle. They are about eight miles northwest of Glen Jean and four miles east of Fayetteville. As yet these mines have not been very largely developed. What has been done is on the double entry system. The shaft equipments, excepting the hoisting engines, are only temporary. The permanent structures, such as head houses, tipples and chutes are now under construction. The ventilation of both these shafts is at present produced by two 10-foot disc fans, which give very good results for the present developments.

The Beech Creek Mine is a drift located close by the Parral Shaft. The developments which are on a small scale are in the No. 1 Gas Coal or Eagle, which is found at this point near the top of the mountains and is about 3 feet 8 inches to 4 feet in thickness. The ventilation is natural and moderate. The general safety of this mine is good. All necessary requirements for use in case of accident, together with safety lamps, etc., are kept on hand. Three regular inspections were made of these mines during the year and on each occasion all conditions were found safe.

F. W. SCARBOROUGH, General Manager.

J. P. DAVIS, Supt., Parral and Beech Creek Mines.

F. F. DIXON, Supt., Stuart Mine.

WM. NEIL, Mine Boss, Parral Mine.

DAVID LINDSAY, Mine Boss, Beech Creek Mine.

WM. H. THOMPSON, Mine Boss Stuart Mine.

J. E. O'BOYLE, Fire Boss, Parral Mine.

JOHN T. O'BOYLE, Fire Boss, Stuart Mine.

QUINNIMONT COAL CO.

Nos. 365 and 366. *Big Q and Lick Branch Mines.*—These are drift mines

located on the Laurel Creek Branch of the C. & O. Ry., $4\frac{1}{2}$ miles from Quinimont and 79 miles east of Charleston. The developments are in the Fire Creek, or Quinimont seam. It was at these two points that this seam was first worked many years ago and supposed at that time to be two separate seams. The seam ranges in thickness from 3 ft. to 4 ft. 6 in. at this operation and has a very good slate roof. The developments are all conducted on the double entry system. In the Big Q mine the greatest proportion of the work now being done is pillar work. There are, however, some large blocks of solid coal in this lease which will later be developed. The Lick Branch Mine is all solid work and is being very extensively developed. During the greatest part of the past two years this work has been principally entry work. The ventilation in both mines is natural. In the old mine, the Big Q, there are several openings clear through the hill and the ventilation generally is good. In the Lick Branch operation it is only moderate as a rule. With a fan of any reasonable amount of power this mine would be well ventilated and give satisfaction all around; as it is, with natural ventilation, this cannot be said as sometimes there is good ventilation and sometimes none at all. The drainage in both mines is good and natural. The conditions in regard to general safety of all haulways, machinery, traveling roads, etc., are good.

Two regular inspections were made of these mines during the year and on each occasion all conditions were found as set forth above. All necessary requirements in case of accident are kept on hand and in proper condition and also other requirements, including safety lamps, etc.

C. C. BEURY, Gen. Mgr.

C. B. HELWIG, Supt.

D. F. JOHNSON, Mine Boss.

ROBINS COAL CO.

No. 367. *Robins Mine*.—This operation is located on the Laurel Creek Branch of the C. & O. Ry., about 3 miles from Quinimont. The developments are in the Fire Creek seam, which at this point has been a very uncertain and very unprofitable quantity for several years. The seam has ranged in thickness, as a general proposition, from 2 ft. to 3 ft. 6 in. and has been intersected with rolls more than at any other point in the field. The company finally suspended operations indefinitely on the first of January, 1905. Since that time nothing has been done.

Previous to the suspension this mine was inspected once during the year and found satisfactory in regard to the general safety.

RICHARD HOWELLS, Supt. and Mine Boss.

GLENDALÉ COLLIERY CO.

No. 368. *Glendale Mine*.—This operation is on Laurel Creek on the lease next to the Big Q Mine. The developments are in the Fire Creek Seam and are conducted on the double entry system. However, during the year very little progress has been made. At the points where the principal developments were intended to be made the seam proved a failure; in other words, it pinched out and other arrangements have had to be

made to reach the point where the seam is found in a condition profitable to work.

This mine was inspected twice during the year and found satisfactory in all appointments.

J. H. BOYD, Supt. L. G. DOLLISON and J. E. LE SUEUR, Mine Bosses.

LAUREL CREEK COAL CO.

No. 369. *Laurel Creek Mine.*—This is a drift mine located on Laurel Creek Branch of the C. & O. Ry., 4 miles from Quinnimont and 77 miles east of Charleston. The developments are in the Fire Creek seam, which varies in thickness at this point from 3 ft. 6 in. to 4 ft. 8 in. The work is conducted on the single and double entry systems combined. This method is not a satisfactory one by any means, and it is a matter of impossibility, as long as this system is pursued, to keep all sections of the mine properly ventilated and up to the requirements of our mining laws. Wherever cross entries are driven single and rooms turned off them, the head of the entries are always more or less ahead of the ventilating currents and which are so much reduced by the leakage at the mouth of every room that very little fresh air reaches the head. The drainage in this mine is very poor. The ventilation is produced by a 10-ft. Crawford & McCrimmon fan, which is inadequate for the requirements of this mine and generally speaking is very moderate. This fan, I understand, will be removed to another point. In a short time the No. 8 right entry will be broken through to day-light. This will be a very important improvement, as it will shorten the airways nearly one-half and give a clear, new airway much larger and less obstructed than the present one. The general safety of the mine in regard to condition on haulways, etc., is good. All necessary requirements in case of accident and otherwise requirements as prescribed by law are kept on hand.

Two regular inspections of this mine were made during the year and on each occasion the conditions in general were found as set forth above.

ISAAC W. ROWE, Supt.

E. J. DOOLEY, Mine Boss.

GREENWOOD COAL & COKE CO.

No. 370. *Greenwood Nos. 1 and 2 Mines.*—These are drift mines located on the Laurel Creek Branch of the C. & O. Ry., 5 miles from Quinnimont and 79 miles from Charleston. The developments are in the Fire Creek seam, which at present averages about 3 ft. 4 in. to 3 ft. 8 in. in thickness. Generally speaking the roof is good. The work is conducted partly on the double and single entry systems combined. The ventilation in the No. 1 Mine is natural and is very moderate. Arrangements are now being perfected to install a fan, which will remedy this defect to some extent. But these workings will never give entire satisfaction until systematic double entries are adopted. The drainage in the principal portion of this mine is natural and fairly good. The roofing conditions in both mines are good. General safety of all haulways good and in a very satisfactory condition.

The ventilation in the No. 2 Mine is produced by a 10 ft. disc fan, which gives very fair results where the double entries exist, but where

single entries are worked the same old rule applies and until this defective method is prohibited by an act of the Legislature and double and triple entries become a standing requirement of law, so long will this method be practiced under the impression that it is somewhat of a saving in the production of the mine, when it is actually a drawback and a delusion. This mine makes very little water and the grades are all in favor of natural drainage.

Two regular inspections were made of this mine during the year and the conditions existing from a general standpoint were satisfactory, except the ventilation at many points, which can only be remedied and made satisfactory to all parties concerned by the regular adoption of double entries. All the necessary equipment required by law for accidents, safety lamps, and otherwise were found on hand.

WM. A. BROWN, Supt.

HENRY C. PETERS, Mine Boss.

HEMLOCK HOLLOW COAL CO.

No. 371. *Hemlock Hollow Mine.*—This mine is located about one mile above the Greenwood Mine on Laurel Creek. The developments are in the Fire Creek seam and are principally conducted on the double entry system. This mine has been shipping coal during the entire year. This mine has not adopted any mechanical means for ventilation purposes. The bulk of the mining has been done in a narrow ridge of mountain separate from the main body of the lease, which has been holed through at several points, which afforded very good natural ventilation. The grades in this piece of territory are favorable for natural drainage. The roof is good and the general safety of all haulways good. Stretchers, safety lamps, and other requirements of the law were found on hand and at proper and suitable locations.

Two regular inspections were made of this mine during the year and on each occasion the conditions existing were found satisfactory in every respect.

WM. A. BROWN, Gen Mgr.

A. J. BROWN, Mine Boss.

EXPORT COLLIERY CO.

No. 372. *Export Mine.*—This mine is located about one mile above the Greenwood Mine on Laurel Creek. The developments are in the Fire Creek seam and are principally conducted on the double entry system. This mine has been standing idle during the year. No mechanical means for ventilation purposes have been adopted.

This mine has recently changed hands and is now owned by the New River & Pocahontas Consolidated Coal Co. and the work is being pushed and changes are being made of an important character, and when completed the shipment of coal will be resumed.

J. JENKINS, Mgr.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.

Nos. 373, 374, 375, 376 and 377. *Rend Nos. 1, 2, 3, 4 and 5 Mines.*—These are drift mines located on Arbuckle Creek, a tributary of New River, and on the Arbuckle Branch of the C. & O. Ry., about 3 miles south of Thur-

mond and 63 miles east of Charleston. The No. 1 Mine operates the Fire Creek seam and the Nos. 2, 3, 4 and 5 Mines are in the Sewell seam. The Fire Creek seam is irregular in thickness, ranging from 3 to 5 feet. The Sewell seam, practically speaking, is almost constant in thickness at this point, ranging from 4 ft. 4 in. to 4 ft. 8 in. All these operations are conducted on the double entry system. The ventilation is produced in each of these mines by fan power, each mine has a separate 10-ft. disc fan, which gives very good results, and combined with the condition in which all the other ventilation arrangements are kept, has always been satisfactory. The drainage of these mines, which is accomplished by pumps, principally operated by both steam and electric power, is good in every mine except at local points. The roofing conditions in all these mines vary in character, in some sections slate of a very uncertain nature is found and in others the very hardest and soundest sandstone covers the coal seam. In all these mines regular and careful supervision is exercised and the general safety of all haulways and other working places has always been found good. All necessary requirements prescribed by law for any and all accidental occurrences and otherwise are regularly kept on hand and at proper points where they can be utilized with the least possible delay.

Three regular inspections were made of these mines during the year and on each occasion the conditions in all departments were found satisfactory in every detail.

JOSEPT N. SCHWEITZER, Supt.

JAMES McDONALD and

A. McDANIEL, Mine Bosses No. 1 Mine.

CHARLES CARMON, Mine Boss No. 2 Mine.

J. L. HUFFMAN, Mine Boss No. 3 Mine.

B. F. TETLOW, Mine Boss No. 4 Mine.

JOHN SHEARER, Mine Boss No. 5 Mine.

GAMOCA COAL CO.

Nos. 379 and 380. *Gamoca No. 2 Gas and No. 5 Splint Mines.*—These are drift mines located on Gauley River Branch of the C. & O. Ry. The developments are in the No. 2 Gas and the No. 5 Splint seams, and are conducted on the double entry system. The No. 2 seam averages about 4 feet in thickness and at present has a sandrock roof principally. The ventilation is produced by a small furnace which is inadequate for the requirements of the mine and the ventilation is only moderate. The drainage is good. Haulways and other appointments good and safe.

The No. 5 seam is worked in the No. 5 Splint Mine. The ventilation is natural and moderate. All other conditions were found satisfactory and safe.

These mines were visited and inspected three times during the year and found satisfactory in every detail except the defective condition of the ventilation at the last visit.

J. M. CAMPBELL, Supt. W. H. DUNCAN, Mine Boss No. 2 Gas Mine.

M. E. NELSON, Mine Boss No. 5 Splint Mine.

DEITZ COLLIERY CO.

Nos. 380 and 381. *Deitz No. 2 Gas and No. 5 Splint Mines.*—These are drift mines located on the Gauley River Branch of the C. & O. Ry., about 3 miles from Gauley Bridge. The seams worked are the No. 2 Gas and the No. 5 Splint. The developments in the Gas No. 2 seam which averages about 3 ft. 6 in. to 3 ft. 8 in. in thickness, are on the double entry system principally. The ventilation is produced by a small furnace, which gives very poor results in some sections of the mine. The mine makes very little water and is somewhat dry in some parts of the mine. The roof is sandrock and good all over the mine.

The No. 5 Splint seam is about 6 feet in thickness at this point, two feet of the top part of the seam are not shipped and are usually left up for a roof, which makes a very good roof. The ventilation in this mine is produced by a small makeshift furnace and is poor. The drainage is fairly good. The haulways and other arrangements, except the ventilation, are in good condition and apparently safe in every respect.

These two mines were inspected three times during the year and found as stated above.

THEODORE DEITZ, Supt.

L. D. MORAN, Mine Boss.

LYNCHBURG COLLIERY CO.

No. 382. *Lynchburg Mine.*—This is a drift mine located on the Gauley River Branch of the C. & O. Ry. The developments are in the No. 2 Gas coal and are conducted principally on the double entry system. The ventilation is produced by a small furnace and natural, and is very moderate, as a general proposition. There is very little water and the drainage is fairly good. The roof is principally sandrock and good. The general safety of the mine is good.

This mine was visited on two occasions during the year and was found in good condition from a general standpoint, except the inadequate provision for ventilating power.

THEODORE DEITZ, Supt.

W. N. WHITLOCK, Mine Boss.

NICHOLAS COUNTY.

BELL CREEK COAL CO.

No. 383. *Bell Creek Mine.*—This is a drift mine located on Twenty-mile Creek and on the Gauley River Branch of the C. & O. Ry. 7 miles north of Gauley Bridge. The developments are in the Coalburg seam and are conducted on the double entry system. The ventilation is produced by an 8 ft. disc fan and is good. The drainage is natural and good. The general safety of the haulways is good. This mine has not been in operation more than one-third of the time during the past year on account of slack trade for this quality of coal.

Three visits were made but two inspections only were made of this mine during the year, at which periods the conditions in general were found satisfactory.

C. G. WOOD, Supt. and Mine Boss.

THE COLUMBUS COAL CO.

No. 384. *Vaughan No. 1 Mine.*—This is a drift mine located on Twenty-mile Creek and on the Gauley River Branch of the C. & O. Ry. The operations are in the No. 2 Gas coal. The developments are on the double entry system. The operation is of a very limited character. The ventilation is produced by a furnace which gives very poor results. The other arrangements for ventilation purposes, such as doors, stoppings, etc., were found in a very poor condition when last inspected. The drainage is very poor as a general proposition. The roof is good and all haulways were found in a good condition, from a standpoint of safety.

This mine was inspected three times during the year and when last inspected was in a very poor condition, and was not doing any work.

TAYLOR HAYS, Supt. WILLIAM HALL and JOHN KIRBY, Mine Bosses.

THE CAMBRIA MINING CO.

No. 385. *Cambria Mine.*—This is a drift mine located on the Open Fork of Bell Creek, a tributary of Gauley River, and on the Gauley River Branch of the C. & O. Ry. The Coalburg seam is operated and averages in thickness at this point about 4 feet, including a small band of bone coal. The developments are on the double entry system. The ventilation is produced by a small furnace, which gives moderate results. The drainage is natural and fairly good. The roof is slate and fairly good. The haulways are kept in good condition and the general safety of the mine is good.

Three regular inspections were made during the year, at which times the mine was found in a safe condition.

WM. J. JONES, Gen. Mgr.

A. R. JONES, Supt. JOHN JONES and F. E. COLEMAN, Mine Bosses.

MT. CARMEL COAL CO.

No. 386. *Mt. Carmel Mine.*—This operation is located immediately opposite the Cambria Mine on the Open Fork of Bell Creek. The developments are in the Coalburg seam. Double entries are driven. The ventilation is produced by an 8 ft. disc fan, which gives good results. The drainage and conditions of all haulways, together with every other appointment, are kept in good order and from a general standpoint of safety are good. All requirements necessary for use in moving injured workmen, etc., kept on hand and in proper order.

Two regular inspections were made of this mine during the year and found satisfactory in every detail.

F. W. MAGRADY, Supt.

C. H. GREEN, Mine Boss.

THE NATIONAL COAL & COKE CO.

No. 387. *National Mine.*—This is a drift mine located on the Open Fork of Bell Creek. The developments are in the Coalburg seam and are being conducted on the double entry system. The general condition of this mine is fairly good. The developments are as yet limited on account of the slack run that has prevailed all through this hard coal field during the year.

This mine was visited on two occasions during the year and was found in a safe and satisfactory condition.

CHAS. JASPER, Supt. CLYDE WOOD and JACK SMITH, Mine Bosses.

THE ARMINIUS COAL CO.

No. 388. *Arminius Mine*.—This is a drift mine located on Bell Creek, about 11 miles from Gauley Junction on the Gauley Branch of the C. & O. Ry. The operations are in the Coalburg seam, which averages about 4 feet in thickness at this point. The developments are as yet limited. The demand for this quality of coal has been very dull the greater portion of the year. All the entries are driven double and the condition of the mine from a general standpoint of safety and otherwise is fairly good.

This mine was inspected three times during the year and found satisfactory in all the various arrangements.

G. E. SMITH, Supt.

S. W. SMITH, Mine Boss.

THE GAULEY COMPANY.

No. 389. *Greendale Mine*.—This is a drift mine located on the Gauley River Branch of the C. & O. Ry., 14 miles from Gauley Junction. The operations are in the Coalburg seam, which averages about 4 feet in thickness, including a small band or two in some sections of bone coal. The developments are on the double entry system and as yet are of a limited character. The ventilation is natural and only moderate. The other conditions and appointments are in good form and in every respect safe from a general standpoint. All requirements of law for the speedy and comfortable removal of injured workmen, etc., are kept on hand and at proper places.

This mine was visited and inspected three times during the year and found on each occasion in a very good condition from a general standpoint.

C. C. SHARP, Supt.

M. B. WELCH, Mine Boss.

RALEIGH COUNTY.

THE NEW RIVER SMOKELESS COAL CO.

Nos. 390, 391 and 392. *Royal and Lanark Nos. 1 and 2 Mines*.—These are drift mines located on the Piney Branch of the C. & O. Ry., which leaves the main line at Prince 73 miles east of Charleston. The developments in the Royal Mine are in the Fire Creek seam and are conducted principally on the double entry system. The ventilation is natural. This operation is situated between the mouths of different creeks, Piney Creek on the west and Glade Creek on the east. There are openings for ventilation and other purposes on both these creeks. The main openings are between those two points. There is considerable difference in level of the different openings, which causes fairly good ventilation during the hot months in summer and the cold months in winter. During the spring and fall the ventilation, however, is on many occasions bad. The drainage is good, there being very little water with which to contend. The roof is good and all haulways are good in regard to safety.

The Lanark Mines are in the Fire Creek and Sewell seams, and are both conducted on the double entry system. The No. 1 Mine operates the

Fire Creek seam, but during the past year has not been working to any extent, the coal seam at present only showing about 2 ft. 6 in. to 2 ft. 10 in. in thickness.

The No. 2 Mine operates the Sewell seam. There are two separate drift openings to this mine and from these openings all the coal now being shipped is produced. The seam averages in thickness 4 ft. 6 in. to 4 ft. 10 in. The operations are conducted on the double entry system. The ventilation is produced by small temporary furnaces, which give fairly good results considering the amount of development and the number of workmen employed. Part of the drainage is natural and part is accomplished by steam pumps and is good. The general safety on haulways, etc., is good. The usual requirements in regard to provision in case of accident, etc., as required by law, are kept on hand in proper form and at suitable places. These mines were regularly inspected twice during the year and were found satisfactory in all their appointments on each occasion.

JOHN LAING, Gen. Supt. MORRIS McGUIRE, Mine Boss No. 2 Mine.

J. H. HOWALD, Mine Supt. DAVID LAING, Mine Boss No. 1 Mine.

CHARLES STOVER, Mine Boss Royal Mine.

RALEIGH COAL & COKE CO.

Nos. 393, 394, 395 and 396. *Raleigh Nos. 1, 2, 3 and 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. Ry., 14 miles from Prince and about 88 miles from Charleston. The operations are all in the Fire Creek seam, and are conducted on the double entry system. At each mine there is a 5-ft. high speed fan installed, operated by electric power, which gives good results. The ventilation arrangements of all these mines are good. The drainage which is accomplished by pumps principally in all these mines is moderately good. The roof is good and the general conditions of all haulways and other appointments are kept in a safe condition in all these mines.

These mines were regularly inspected three times during the year, on which occasions they were found safe in every respect and satisfactory in every detail. All necessary requirements for the removal of injured workmen and other provisions as required by law were found on hand.

REX McCLURE, Supt.

EDWARD B. THOMPSON, Mine Boss Nos. 1, 2 and 4 Mines.

ED. ZWILLING, Mine Boss No. 3 Mine.

THE WRIGHT COAL & COKE CO.

Nos. 397 and 398. *Wright No. 1 and Pack No. 2 Mines.*—These are drift mines located on the Piney Creek Branch of the C. & O. Ry. about 3 miles west of Pince and 76 miles east of Charleston. The operations are in the Fire Creek seam. The developments are conducted principally on the double entry system. The ventilation in the No. 1 Mine is produced by a 7 ft. disc fan, operated by electric power. The other ventilation arrangements are kept in fairly good order and since this fan has been installed the ventilation has been satisfactory. The drainage is moderately good. The grades in this mine are very irregular and the drainage in general is

accomplished by pumping and it is exceedingly difficult to keep all parts of this mine as well drained as in mines with more favorable conditions existing. The roof is good and the general safety of all haulways in both mines is good.

The No. 2 Mine is about one mile away from the No. 1 opening and is operating the same seam. The developments are as yet limited and only a small force of men is employed. The ventilation is natural and moderate. The drainage is natural and fairly good. The seam at this point, in both these mines, is of a very irregular character, very much intersected with rolls and ranging in thickness from 2 ft. 6 in. to 4 ft.

Three regular inspections were made of these mines during the year and on each occasion the above conditions were found to exist. All arrangements necessary and as required by law for the speedy and comfortable removal of any workman sustaining an injury, safety lamps, etc., as required by law, were found on hand and in good condition.

W. GASTON CAPERTON, Supt. WM. HURT, Mine Boss No. 1 Mine.

TOM DAVIS, Mine Boss No. 2 Mine.

PINEY COLLIERY.

Nos. 399, 400 and 401. *Piney Nos. 1, 2 and 3 Mines.*—These are drift mines located on the Piney Branch of the C. & O. Ry., about 7 miles from Prince. The developments of the Nos. 1 and 2 Mines are in the Fire Creek seam, which at this point is somewhat irregular in thickness, ranging from 3 to 5 ft. The work is conducted principally on the double entry system. The ventilation produced by three small furnaces which give moderate results. The drainage in the Nos. 1 and 2 Mines is good. The roof is good and the general safety on the haulways is good.

The No. 3 Mine is in the Sewell seam and the developments are conducted on the double entry system. The ventilation in this mine is fairly good. The drainage is good. Haulways are regularly and properly timbered and are in good condition and safe.

Two regular inspections were made of each of these mines and on each occasion they were found satisfactory in every respect except the ventilation in some sections of the Nos. 1 and 2 Mines. Stretchers, safety lamps and other requirements, as prescribed by law, were found on hand.

P. J. RILEY, Supt. JOHN BURNS, Mine Boss Nos. 1 and 2 Mines.

PAT McQUADE and CHAS. FINK, Mine Bosses No. 3 Mine.

STONEWALL COAL & COKE CO.

Nos. 402, 403 and 404. *Stonewall Nos. 1 and 2 and Terry Mines.*—These are drift mines located on the Piney Branch of the C. & O. Ry. about 4 miles from Prince and 77 miles from Charleston. The operations are in the Fire Creek and Sewell seams.

The developments of the Stonewall No. 1 Mine are in the Fire Creek seam, which at this point is about 2 ft. 6 in. to 2 ft. 10 in. in thickness and on account of the thin condition of the seam very little work has been done during the year.

The developments of the No. 2 Mine are in the Sewell seam, which averages 4 ft. 6 in. to 5 ft. in thickness. The work is all conducted on the

double entry system. The ventilation is produced by a small furnace which gives moderate results. The drainage as a general proposition is poor. The roof is soft and has to be very closely timbered all over the mine, which is very well attended to, and the haulways have been found good and safe from a standpoint of general safety.

The developments of the Terry Mine are in the Fire Creek seam and the mine is located about two miles from Stonewall on New River, immediately opposite the west end of Stretchers Neck C. & O. Tunnel. The seam ranges in thickness from 3 to 4 feet. The developments are conducted on the double entry system. The ventilation is produced by a small furnace, which gives very poor results. The drainage is also moderate. The roof is good and the general safety of all of the haulways is good.

Two regular inspections were made of this mine during the year, when the above conditions were found.

F. T. Lee, Supt. WM. CRICKMER and JAMES DAWSON, Mine Bosses.

BECKLEY COAL & COKE CO.

No. 405. *Beckley Mine.*—This is a drift mine located on the Piney Branch of the C. & O. Ry., about 17 miles from Prince and by rail 90 miles from Charleston. The developments are in the Sewell seam and are conducted on the double entry system. The ventilation is produced by a 12-ft. fan, which gives good results. The ventilation arrangements, including doors, stoppings, etc., are good. The drainage, which is accomplished by steam pumps, together with the general condition of the entire mine are good. All necessary provisions for the taking care and removal of any one injured, keeping on hand safety lamps, posting special rules, etc., are all observed and regularly enforced.

Three regular inspections of this plant were made during the year, at which times the general conditions existing were found safe and satisfactory in every respect.

T. BICKEL, Supt.

J. McHUGH, Mine Boss.

MABSCOTT COAL & COKE CO.

No. 406. *Mabscott Mine.*—This is a drift mine located on the Piney Branch of the C. & O. Ry. about 16 miles from Prince. The developments are in the Sewell seam, which ranges in thickness from 4 ft. 4 in. to 4 ft. 8 in. The work is conducted on the double entry system. The ventilation is at present produced by a small furnace. Arrangements are, however, now being made to install a fan. The ventilation arrangements in regard to doors, stoppings, etc., are good, but the furnace is inadequate for the requirements of this mine and this causes the ventilation to be very poor at present. The drainage is natural, as a general proposition, and is good. The roof is fairly good except that about 6 to 8 inches of draw slate either comes down or has to be taken down.

The general conditions in regard to safety on the haulways and otherwise appointments are good except the ventilation, to which reference has been made. All necessary provisions as required by law in regard to keeping on hand suitable equipment for emergency use in case of accident, etc., are observed.

Four regular inspections were made of this mine during the year, at which times the mine's conditions in general were good and satisfactory, except the temporary defect in the ventilation.

F. E. WALKER, Supt.

E. L. HUDSON, Mine Boss.

CRANBERRY COLLIERY CO.

Nos. 410 and 411. *Cranberry Shafts*.—This operation is being developed on a spur track leaving the Piney Branch of the C. & O. Ry. at Beckley Station. This road is now being built and when completed will be six miles in length, passing through the corporate limits of the Town of Beckley, the county seat of Raleigh County. At the terminus of this road there are now under way two shafts which, when completed, will be something over 400 feet in depth and will develop the Sewell seam. On this line of road there are also being opened two drift mines close to the Town of Beckley by the same company and in the Sewell seam, which at this point averages about 4 ft. 4 in. to 4 ft. 8 in. There are about 300 men, all told, at present employed in the various kinds of work going on.

D. M. Rosser, of Pennsylvania, has the contract for sinking the shafts.

F. W. SCARBOROUGH, Gen. Mgr.

ROBERT BOYD, Gen. Mine Boss, at drift mines.

FOURTH DISTRICT.

GENERAL SUMMARY OF THE FOURTH DISTRICT FOR THE
YEAR ENDING JUNE 30, 1905.

COUNTY.	EMPLOYEES.										PRODUCTION.		
	No. of openings.	No. of men killed.	Inside.					Outside.			Grand total.	Coal (tons of 2240 lbs.)	Coke (tons of 2000 lbs.)
			Pick miners.	Machine miners.	Machine run- ners & help- ers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.			
Logan	8	49	130	28	152	359	43	43	402	127,616			
McDowell ..	78	4,387	197	61	2,190	6,835	1,061	2,273	3,334	10,189	6,810,730	1,380,805	
Mercer	28	7	1,187	42	20	544	1,793	299	462	761	2,554	1,738,330	267,697
Mingo	44	7	786	708	227	520	2,241	307		307	2,548	1,375,233	
Wayne	1	15			4	19	5	5	24		21,165		
Totals ..	159	51	6,424	1,077	336	3,410	11,247	1,715	2,735	4,450	15,697	10,078,074	1,648,502

OFFICE OF THE FOURTH DISTRICT MINE INSPECTOR,

Keystone, W. Va., Sept. 11, 1905.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.:

SIR—I have the honor to submit my annual report of the Fourth Mining District of West Virginia for the year ending June 30th, 1905.

During the year I have made 315 regular inspections. The mines in the Fourth District are in a good condition, and show a steady improvement. There has been a great deal of new development in this district during the past year.

The following new mines have been opened and are shipping coal: Nos. 1, 2, 3 and 4 at Coalwood, belonging to Virginia Pocahontas Coal & Coke Co., on Clear Fork in McDowell County.

The Norfolk & Western Ry. Co. has contracted sixteen miles of railroad on Dry Fork Branch. This will open up another valley of the celebrated Pocahontas coal, and will add to the district at least twenty new mines.

In the County of McDowell, during the year ending June 30th, 1905, the mine known as Rolfe has gone out of operation. In Mercer County, the Yukon and Sagamore Mines have been shut down, and in Mingo County the Pearl Mine, belonging to the Pearl Coal Mining Co., is worked out.

In compliance with chapter 106 of the Acts of the Legislature of 1901, the following additional rules are adopted and are practical rules for mining:

1. Scale; not exceeding 100 feet to 1 inch.
2. Shall show openings, slopes, airways, headings, rooms, pillars and abandoned portions of the mine.

3. Inclination (dip) of the coal.
4. Property lines and outcrop of coal tract within 1000 feet of any part of the mine workings.
5. A true copy of map to be furnished the district mine inspector.
6. Original or true copy of map shall be kept at the office of the mine, which shall be accessible to the inspector.
7. Maps shall be extended by the operator twice each 12 months, not over seven months apart.

I have endeavored to carry out your orders, which are practical, that the miners are supplied with props and cap boards.

During the year ending June 30th, 1905, there has been one explosion, in which 7 lives were lost. This occurred on Sunday, February 26th, 1905, at the Grapevine Shaft, belonging to the United States Coal & Coke Co. My report of this explosion and also the report of Mr. Earl Henry of the Second District, and the blue print of the mine showing the inlet and outlet and where bodies were found, were forwarded to you.

In conclusion I wish to thank the mine owners, managers, superintendents, bosses, miners and laborers for the courtesies received during the past year, also to thank you for your able counsel and advise so promptly given.

Yours very truly,
S. S. COOPER,
Mine Inspector, Fourth District.

CONDITION OF THE MINES IN THE FOURTH MINING DISTRICT.

S. S. COOPER, INSPECTOR.

LOGAN COUNTY.

THE MONITOR COAL & COKE CO.

No. 412. *Monitor Mine.*—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The seam of coal operated is Winifrede, which averages in thickness 5 to 6 ft. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JOS. BARLOW, Supt.

B. LAMBERT and E. M. STEPHENS, Mine Bosses.

THE GAY COAL & COKE CO.

No. 413. *Gay Mine.*—This mine was inspected once during the year, when the condition in regard to safety was found good. The coal mined is Winifrede, which averages in thickness 4 to 5 ft. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirement of law. Rules are not posted. This mines was known as the Mounts Fisher Mine, but has changed to the name of Gay Mine.

H. S. GAY, Supt.

A. E. THOMPSON, Mine Boss.

DRAPER C. & C. CO.

No. 414. *Draper Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The seam of coal mined is Winifrede, which averages in thickness 4 to 4½ ft. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirement of law. Rules are not posted.

J. P. DRAPER and MATHEW HALL, Supts.

J. HENRY HALL, Mine Boss.

BIG CREEK COAL CO.

No. 415. *Big Creek Mine*.—This mine was inspected once during the year, when the condition in regard to safety was found good. The coal mined is Winifrede, which averages in thickness 4 to 4½ ft. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are not posted.

JOS. KITCHEN, Supt. and Mine Boss.

UNITED STATES COAL & OIL CO.

No. 416 and 417. *Island Creek Nos. 1 and 2 Mines*.—These mines were inspected twice during the past year, when the conditions in regard to safety were found to be good. The seam of coal mined is Winifrede, which averages in thickness 5 to 6 ft.

The roof is good, drainage good, ventilation perfect and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

E. P. MERRILL, Supt.

H. D. PENNMAN, Mine Boss.

CORA COAL & COKE CO.

No. 418. *Cora Mine*.—This mine is just being opened.

M. Z. WHITE, Supt.

PLATO KETCHEN, Mine Boss.

STONE BRANCH COAL CO.

No. 419. *Stone Branch Mine*.—This mine is just being opened.

W. H. ADAMS, Supt. and Mine Boss.

McDOWELL COUNTY.

TIDEWATER C. & C. CO.

No. 420. *Tidewater Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 feet. The roof is not good, drainage is fair, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

W. E. BORDERMAN, Supt.

SAM CAMPBELL, Mine Boss.

THOS. BOOTH and AMOS HOLLAND, Fire Bosses.

BOTTOM CREEK C. & C. CO.

No. 421. *Bottom Creek Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 feet. The roof is not good, drainage is fair, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of law. Rules are posted at the mine. Doors are self-closing.

SAM PATTERSON, Supt.

JAMES CARROLL, Mine Boss.

P. O'BRIEN and P. A. GRADY, Fire Bosses.

PEERLESS C. & C. CO.

No. 422. *Peerless Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness from 6 to 7 feet. The roof is good after draw slate is taken down. Drainage good, ventilation is perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors self-closing.

L. E. TIERNEY, Supt.

THOS. WELDEN, Mine Boss.

J. O. SMITH, Fire Boss.

THE EMPIRE C. & C. CO.

No. 423. *Empire Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness from 5 to 6 feet. The roof is fair, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. D. ORD, Supt.

THOS. BARRETT, Mine Boss.

HARRY BARRETT, Fire Boss.

SHAWNEE C. & C. CO.

No. 424. *Shawnee Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 6 feet. The roof is good after the draw slate is taken down. Drainage fair, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

P. P. FLANAGAN, Supt.

FRANK McCLOSKEY, Mine Boss.

EUREKA C. & C. CO.

No. 425. *Eureka Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. The draw slate in this mine averages 8 to 14 inches in thickness; the roof is good when this is taken down. Drainage is fair, ventilation good, and general safety of all entries and rooms

is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors self-closing.

L. E. TIERNEY, Supt.

C. C. HUGHES, Mine Boss.

PULASKI IRON CO.

No. 426. *Pulaski Mine.*—This mine was regularly inspected three times during the year. The conditions in regard to safety were found good. The seam of coal at this mine is Pocahontas No. 3, which averages in thickness from 7 to 8 feet. The roof is good, ventilation perfect, and general safety on all entries and rooms is good. Oil meets the requirements of law. Rules are posted at the mine. This company has improved its property in the last year 50 per cent over the preceding year, and is well prepared to ship all grades of coal.

PERCIVAL JOHNSON, Supt.

J. M. SHANKS, Mine Boss.

KEYSTONE COAL & COKE CO.

No. 427. *Keystone No. 1 Mine.*—This mine was regularly inspected three times during the year. The conditions in regard to safety were found good. The coal mined is Pocahontas No. 3, which averages in thickness from 5½ to 6 ft. The roof in this mine is good when draw slate is taken down. The ventilation is good, and general safety on all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine, and doors are self-closing.

J. K. F. STEELE, Supt.

JNO. MURRAY, Mine Boss.

B. MEADOWS, Asst. Mine Boss.

GEORGE COOPER, Fire Boss.

No. 428. *Keystone No. 2 Mine.*—This mine was regularly inspected three times during the year. The conditions in regard to safety were found good. The coal mined is Pocahontas No. 3, which averages 6 ft. in thickness. The roof is good when draw slate is taken down. The drainage is good, ventilation good, and general safety on all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine, and doors are self-closing.

J. K. F. STEELE, Supt.

JNO. MURRAY, Mine Boss.

GEO. SMITH, Asst. Mine Boss.

CHAS. COONEY, Fire Boss.

ALGOMA C. & C. CO.

No. 429. *Big Four Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. The roof is good after draw slate is taken down; drainage fair, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

M. F. HENSLEY, Mine Boss.

J. F. LOGAN, Fire Boss.

No. 430. *Algoma Coaling Station or North Fork Mine.*—This mine was regularly inspected three different times during the year, when the con-

dition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. The roof is good after draw slate is taken down. Drainage is good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

LEVI BOLDEN, Mine Boss.

No. 431. *Algoma Piney Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. The roof is good when draw slate is taken down. Drainage is good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

JOHN STEWART, Mine Boss.

GILLIAM COAL & COKE CO.

No. 432. *Gilliam Mine*.—This mine was regularly inspected three times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage is good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

P. P. FLANAGAN, Supt.

JOHN YOST, Mine Boss.

JOE McKAY, Fire Boss.

ROANOKE COAL & COKE CO.

No. 433. *Roanoke Mine*.—This mine was regularly inspected three times during the year. The condition in regard to safety was found good. The coal mined is Pocahontas No. 3, which averages in thickness from 4½ to 5 feet. The roof in some parts of the mine is good, while in other parts they have a very bad draw slate, which has to be taken down. The ventilation is good. Drainage is good, and general safety on entries and rooms is good. Oil used meets requirements of law. Rules are posted at the mine.

WM. EASLEY, Supt.

SAM FERRIS, Mine Boss.

INDIAN RIDGE COAL & COKE CO.

No. 434. *Indian Ridge Mine*.—This mine was regularly inspected three times during the year. The conditions in regard to safety were found good. The coal mined is Pocahontas No. 3, which averages in thickness from 4 to 5 feet. The roof is one of the best in the field. Drainage is good. Ventilation is good, and general safety on all entries and in rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

C. BOTSFORD, Supt.

HARRY TAYLOR, Mine Boss.

ARLINGTON COAL & COKE CO.

No. 435. *Arlington Mine*.—This mine was regularly inspected three dif-

ferent times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all the entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

P. P. FLANAGAN, Supt.

JAS. CAMPBELL, Mine Boss.

GREENBRIER COAL & COKE CO.

No. 436. *Greenbrier Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found to be good. The seam of coal at this place is the Pocahontas No. 3. It averages in thickness from 5 to 6 feet. The roof is good, good drainage, ventilation perfect and the general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JAIRUS COLLINS, Supt.

G. W. ATKINSON, Mine Boss.

McDOWELL COAL & COKE CO.

No. 437. *McDowell Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which has a thickness of 5 feet. The roof and drainage, good; ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at this mine.

THOMAS H. COOPER, Supt.

JAMES DEVENNY, Mine Boss.

ASHLAND COAL & COKE CO.

No. 438. *Ashland No. 1 Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

EDWARD PHILLIPS and T. J. O'NEIL, Supts.

THOS. DAUGHERTY, Mine Boss.

No. 439. *Ashland No. 2 Mine*.—This mine was regularly inspected three times during the year, when the condition in regard to safety was found to be good. This mine is located about a mile from No. 1 Mine. The seam of coal mined is Pocahontas No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation fair, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at this mine.

EDWARD PHILLIPS and T. J. O'NEIL, Supts.

FRANK GALLAGHER, Mine Boss.

ELK RIDGE COAL & COKE CO.

No. 440. *Elk Ridge Mine*.—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness

6 to 7 feet. The general condition of the roof in this mine is good when the draw slate is taken down. Drainage is good. Ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

L. E. TIERNEY, Supt.

WM. HETTERMAN, Mine Boss.

LYNCHBURG COAL & COKE CO.

No. 441. *Lynchburg Mine*.—This mine was regularly inspected three times during the year, when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1891; first shipment of coke in 1891. Coal mined at this place is Pocahontas No. 3, which averages in thickness 7 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

L. E. TIERNEY, Supt.

THOS. FITZSIMONS, Mine Boss.

POWHATAN COAL & COKE CO.

No. 442. *Powhatan Mine*.—This mine was regularly inspected four different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 7 feet. The roof is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

L. E. TIERNEY, Supt.

JOHN DALTON, Mine Boss.

JOHN LYNCH, Fire Boss.

UPLAND COAL & COKE CO.

No. 443. *Upland No. 1 Mine*.—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted and the doors are self-closing.

J. J. LINCOLN, Supt.

JOHN GRANTHAM, Mine Boss.

No. 444. *Upland No. 2 Mine*.—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 8 feet. The roof is good, drainage good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. J. LINCOLN, Supt.

THOS. GRANTHAM, Mine Boss.

HOUSTON COAL & COKE CO.

No. 445. *Houston No. 1 Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages 7 to 8 feet in thickness. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

BENJ. LEWIS, Supt.

CHRIS. KERSHAW, Mine Boss.

No. 446. *Houston No. 2 Mine.*—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine, and doors are self-closing.

BENJ. LEWIS, Supt.

JOHN WOODYARD, Mine Boss.

CROZER COAL & COKE CO.

No. 447. *Crozer No. 1 Mine.*—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. Roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

RICHARD BAILEY, Supt.

WILEY KEMP, Mine Boss.

No. 448. *Crozer No. 2 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

RICHARD BAILEY, Supt.

GEO. GUY, Mine Boss.

TURKEY GAP COAL & COKE CO.

No. 449. *Turkey Gap Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

WM. McQUAIL, Supt.

J. P. JOHNSON, Mine Boss.

THE POCAHONTAS CONSOLIDATED CO.

No. 450. *Norfolk Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAMES ELLWOOD JONES, Supt.

WM. WALTERS and R. S. WHITEHEAD, Mine Bosses.

No. 451. *Angle Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in

thickness from 6 to 7 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

JAMES ELLWOOD JONES, Supt.

WM. WALTERS, Mine Boss.

SANDY WHITEHEAD, Ass't. Mine Boss.

No. 452. *Lick Branch Mine*.—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

JAMES ELLWOOD JONES, Supt.

JAMES YARDLY and B. H. ENGLISH, Mine Bosses.

No. 453. *Delta Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas No. 3, which averages in thickness from 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted. Doors are self-closing.

JAMES ELLWOOD JONES, Supt.

J. K. WHITEHEAD, Mine Boss.

No. 454. *Shamokin Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas No. 3, which averages in thickness from 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Rules are posted. Oil used meets the requirements of law. Doors are self-closing.

JAMES ELLWOOD JONES, Supt.

HARRY GILLS and A. O. COOPER, Mine Bosses.

No. 455. *Rolfe Mine*.—This mine was regularly inspected once during the past year, when the conditions in regard to safety were found to be good. This mine belongs to the Pocahontas Consolidated Co., and has not been working for the past eight months.

JAMES ELLWOOD JONES, Supt.

J. C. CAMPBELL, Mine Boss.

No. 456. *Cherokee Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted, doors self-closing.

JAMES ELLWOOD JONES, Supt.

ELLIS SHEETS and J. C. SAUNDERS, Mine Bosses.

ELKHORN COAL & COKE CO.

No. 457. *Elkhorn Mine*.—This mine was regularly inspected four dif-

ferent times during the year, when the condition in regard to safety was found to be good. Coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted. Doors are self-closing.

R. S. ORD, Supt. L. B. HOLLIDAY, Mine Boss.

CIRRUS COAL & COKE CO.

No. 458. *Cirrus No. 3 Slope Mine.*—This mine was regularly inspected four times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness from 4 to 5 feet. The roof is good after draw slate is taken down, drainage is moderate, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted. Doors are self-closing. This mine was formerly operated by Big Four Coal & Coke Co.

JAMES BROPHY, Supt. J. M. WATT, Mine Boss.
J. H. BRUMFIELD, Fire Boss.

BIG SANDY COAL & COKE CO.

No. 459. *Big Sandy Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found to be good. The coal mines is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

W. H. SMITH and D. M. WOODY, Supts. JOHN SHORT, Mine Boss.

VAUGHAN COAL & COKE CO.

No. 460. *Cambridge Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

J. R. VAUGHAN and MATHEW HALL, Supts.

H. P. HALL and G. W. STEWARD, Mine Bosses.

DAVY CROCKETT COAL & COKE CO.

No. 461. *Davy Crockett Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage moderate, ventilation fair and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

F. S. GORDON and G. A. BARNETT, Supts.

SID YOST and LANE HUBBARD, Mine Bosses.

POCAHONTAS COAL MINING CO.

No. 462. *Tug River Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. H. WOODY, Supt.

C. P. WOODY, Mine Boss.

TWIN BRANCH MINING CO.

No. 463. *Twin Branch Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. Roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. E. RHODEMYRE, Supt.

JAMES McBRAYER, Mine Boss.

SHORT CREEK COAL & COKE CO.

No. 464. *Short Creek Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness from 3 to 4 feet. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAMES JOHNSTON and C. E. ANGLE, Supts.

WM. O'BRIEN and JAMES JOHNSTON, Mine Bosses.

POCAHONTAS COLLIERIES CO.

No. 465. *West Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas No. 3, which averages in thickness 8 to 10 feet. The entries of this mine that are in McDowell County, West Virginia, are Richland, France, England, Ireland, and Wales. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

WM. LECKIE, Supt.

ED. JONES, WM. Warburton and M. COX, Mine Bosses.

ANTLER COAL & COKE CO.

No. 466. *Antler Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

N. L. FLEEMAN and J. W. THOMAS, Supts.

N. L. FLEEMAN, Mine Boss.

BLACK STONE CONSOLIDATED COAL CO.

No. 467. *Black Stone Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages 3 to 4 feet in thickness. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. B. HONAKER, Supt.

S. S. HARRIS, Mine Boss.

No. 468. *Cletus Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. B. HONAKER, Supt.

S. S. HARRIS, Mine Boss.

UNITED STATES COAL & COKE CO.

No. 469. *No. 1 Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meet the requirements of law. Rules are posted at the mine.

ED. O'TOOLE, Gen. Supt.; JAS. MALIA, Supt.

MIKE BOOKER, FRANK MALONEY and J. A. MILLER, Mine Bosses.

JAMES HILL, Fire Boss.

No. 470. *Grapevine Shaft*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. This mine is ventilated by a 16-foot Capell fan.

ED. O'TOOLE, Gen. Supt.; JOS. MALIA, Supt.

MIKE BOOKER, FRANK MALONEY, and J. A. MILLER, Mine Bosses.

No. 471. *No. 2 Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas No. 3, which averages in thickness 5 to 6 feet. There are four openings at this mine: I, J, M, and L. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. This mine is ventilated by a 16-foot Capell fan.

ED. O'TOOLE, Gen. Supt.

JOHN SHARFENEKER, Mine Boss.

MICHAEL CONNELLY, Supt.

No. 472. *No. 3 Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was

found good. The coal mined is Pocahontas No. 3, which averages in thickness 6 to 7 feet. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. This mine is ventilated by a 16-foot Capell fan.

ED. O'TOOLE, Gen. Supt.; F. E. KING, Supt.

B. ASBURY and MICHAEL BRADY, Mine Bosses.

V. N. LEWIS, Fire Boss.

No. 473. *No. 4 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

ED. O'TOOLE, Gen. Supt.

ALBERT LILLY, Mine Boss.

M. McPARLAND, Supt.

No. 474. *No. 5 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

ED. O'TOOLE, Gen. Supt.

M. McPARLAND, Supt.

C. L. MESTREZAT and JOHN MULLIN, Mine Bosses.

No. 475. *No. 6 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

ED. O'TOOLE, Gen. Supt.; A. J. STEWART, Supt.

W. C. MULLIN and JOSIAH RHODES, Mine Bosses.

MAHER COAL & COKE CO.

No. 476. *Maher Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 3 feet. The roof is good, drainage moderate, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

EDWARD RHODEMYRE, Supt.

S. J. WHITT, Mine Boss.

FLOURNOY COLLIERY CO.

No. 477. *Flournoy No. 1 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The seam of coal mined is the Welch, which averages in thickness 3 feet. The roof is good, drainage good, ventilation perfect, and

general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. D. WOOD and C. O. SMITH, Supts.

M. J. BROGAN and M. W. HYRNE, Mine Bosses.

No. 478. *Flournoy No. 2 Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. D. WOOD and C. O. SMITH, Supts.

J. R. WHITE and M. W. HYRNE, Mine Bosses.

HENSLEY COAL CO.

No. 479. *Hensley No. 1 Mine*.—This mine was inspected three times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. D. WOOD and C. O. SMITH, Supts.

MARK HYRNE, Mine Boss.

MOHAWK COAL & COKE CO.

No. 480. *Mohawk Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to the safety was found to be good. The seam of coal operated is the Welch, which averages in thickness 3 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

C. BOTSFORD and JAMES BOHANNON, Supts.

SAMUEL BECKER, E. E. BLANKENSHIP and JAMES HUNTSMAN,

Mine Bosses.

WELCH COAL & COKE CO.

No. 481. *Welch Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 3 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law.

CHAS. DEVENNY, Supt.

W. T. SPICER, Mine Boss.

No. 482. *Hemphill Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 feet. The roof of this mine is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CHAS. DEVENNY, Supt.

WM. DEVENNY, Mine Boss.

OREGON COAL CO.

No. 483. *Imo or No. 1 Mine*.—This mine was regularly inspected twice during the past year, when the conditions in regard to safety were found to be good. This mine operates the seam of coal known as Welch, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

F. J. BAXTER, Supt. J. L. MILLER and T. G. SHELDON, Mine Bosses.

No. 484. *McClaren or No. 2 Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found to be good. The coal mined is the Welch, which averages in thickness 3 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law.

F. J. BAXTER, Supt. C. B. WEBB and T. G. SHELDON, Mine Bosses.

ZENITH COAL & COKE CO.

No. 485. *Zenith Nos. 1 and 2 Mines*.—These mines were regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

SAM COFFMAN, Supt.

BAILEY REED, Mine Boss.

PAGE COAL & COKE CO.

No. 486. *Page Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 8 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JOHN TIERNEY and W. A. MOORE, Supts. ED. BUCHANON, Mine Boss.

MIDDLE STATES COAL & COKE CO.

No. 487. *U. G. or Elkhorn Shaft*.—This mine was regularly inspected three different times, when the condition in regard to safety was found to be good. The seam of coal operated is Pocahontas No. 4, which averages in thickness 5 feet. The roof is good, drainage is moderate, ventilation good. This shaft is 280 feet deep. They have in the last year made great improvements. They have erected a large tipple and are prepared to ship coal of all sizes. They have now in use for centilation a 20-ft. Capell fan.

C. E. F. BURNLEY and GEO. GULLEY, Supts.

J. G. MITCHELL, Mine Boss.

JNO. RUDD, Fire Boss.

HELENA COAL CO.

No. 488. *Helena Mine*.—This mine was regularly inspected two differ-

ent times during the year, when the condition in regard to safety was found good. The coal mined is the Welch, which averages in thickness 2 to 3 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. W. KEISTER, Supt.

FRED STILSTER and E. C. GRIGG, Mine Bosses.

KING COAL CO.

No. 489. *King Mine*.—This mine is located on a spur branch, one-half a mile from Kimball. It is a slope mine, which is 715 feet long. Coal mined is the Pocahontas No. 3, which average in thickness 5 to 6 feet. It is developed on the double entry system, 80-foot pillars between entry and air course, room centers, 60 feet. Switchback entry at Tidewater is a part of this mine. Entries of this mine will be driven to the line before any of the rooms are worked. At the present time they are just making the rooms.

The roof of the mine is good, drainage good, ventilation good, and general safety good. They have under construction a new tippie, and when completed it will be one of the finest throughout this district.

Two inspections were made of this mine during the year and two certificates were issued.

WM. STEEBERGEN and S. H. BOARDMAN, Supts.

CHARLES COONEY, Mine Boss.

VIRGINIA POCAHONTAS COAL CO.

No. 490. *Coalwood No. 1 Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. These four mines, Nos. 1, 2, 3, and 4, are located on Clear Fork, 12 miles from Gordon.

AARON COLLIER, Supt.

J. W. ALLEY and W. R. MCGINLEY, Mine Bosses.

No. 491. *Coalwood No. 2 Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 5 to 6 feet. The roof is good, drainage good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

AARON COLLIER, Supt. J. W. ALLEY and J. E. MECKEY, Mine Bosses.

No. 492. *Coalwood No. 3*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

AARON COLLIER, Supt. J. W. ALLEY and H. H. FISHER, Mine Bosses.

No. 493. *Coalwood No. 4 Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. This mine was not working on my first inspection on account of not having miners.

AARON COLLIER, Supt.

J. W. ALLEY, Mine Boss.

MERCER COUNTY.

MILL CREEK COAL & COKE CO.

No. 494. *Mill Creek Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages 7 to 10 feet in thickness. The roof is good, drainage good, ventilation perfect and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOMAS COOPER, Gen. Mgr.

GEORGE SMITH, Mine Boss.

I. K. ANDERSON, Supt.

No. 495. *West Side Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 10 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

THOMAS COOPER, Gen. Mgr.

WM. PETTITT, Mine Boss.

I. K. ANDERSON, Supt.

No. 496. *Coaldale Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 9 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

THOMAS COOPER, Gen. Mgr.

THOMAS WILLIAMS, Mine Boss.

I. K. ANDERSON, Supt.

BUCKEYE COAL & COKE CO.

No. 497.—*Buckeye Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless No. 3 seam, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JOHN PACK, Supt.

THOS. GENT, Mine Boss.

THE POCAHONTAS CONSOLIDATED CO.

No. 498. *Caswell Elkhorn Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to

safety was found good. This mine operates the Pocahontas Smokeless No. 3 seam, which averages in thickness 7 to 8 feet. The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

JAMES ELLWOOD JONES, Supt. THOMAS BRAZEAL, Mine Boss.

No. 499. *Caswell Hemlock Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

JAMES ELLWOOD JONES, Supt. FRANK SMITH, Mine Boss.

No. 500. *Sagamore Mine*.—This mine has been idle since September 1, 1904.

JAMES ELLWOOD JONES, Supt. T. C. DOOLEY, Mine Boss.

BOOTH-BOWEN COAL & COKE CO.

No. 501.—*Booth-Bowen Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. This mine operates the Pocahontas Smokeless No. 3 seam, which averages in thickness 7 to 8 feet. The roof of mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms in good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

HARRY BOWEN, Supt. JAS. MITCHELL, Mine Boss.

LOUISVILLE COAL & COKE CO.

No. 502. *Louisville Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The coal mined at this mine is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

JAIRUS COLLINS, Supt.

WM. ADAMS and A. M. HERNDON, Mine Bosses.

GOODWILL COAL & COKE CO.

No. 503. *Goodwill Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

PHILIP GOODWILL, Supt.

R. B. FOY, Mine Boss.

AMERICAN COAL CO.

No. 504. *Pinnacle Mine*.—This mine was regularly inspected three dif-

ferent times during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages 4 to 5 feet in thickness. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

JAMES DUESE, Mine Boss.

No. 505. *Crane Creek Mine No. 1.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

H. A. FRANKENFIELD, Mine Boss.

ED. LUCAS, Ass't. Mine Boss.

No. 506. *Crane Creek Mine No. 2.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety were found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

H. A. FRANKENFIELD, Mine Boss.

ED. LUCAS, Ass't Mine Boss.

CRYSTAL COAL & COKE CO.

No. 507. *Crystal Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

R. E. BALDWIN, and L. M. BUFORD, Supts.

J. HERON and L. H. CARTER, Mine Bosses.

THOMAS COAL CO.

No. 508. *Thomas Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to safety was found to be good. This mine operates the Pocahontas Smokeless No. 3 seam, which averages 4 to 5 feet in thickness. The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine. Doors are self-closing.

W. J. PRITCHARD, Supt.

JAS. HUGHES, Mine Boss.

YUKON COAL CO.

No. 509. *Yukon Mine.*—This mine was abandoned during the forepart of the year.

H. M. MYERS, Supt.

G. W. BELL, Mine Boss.

WEYANOKE COAL & COKE CO.

No. 510. *Weyanoke Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 feet. The roof of the mine is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

ROBT. PATTERSON, Supt.

FRANK WHITT, Mine Boss.

SPRING COAL MINING CO.

No. 511. *Spring Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 ft. The roof of the mine is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

H. E. HARMAN, Supt.

M. J. SAWDER, Mine Boss.

PIEDMONT COLLIERY.

No. 512. *Piedmont Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The seam of coal mined is Pocahontas Smokeless, which averages in thickness 4 to 5 feet. The roof of the mine is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JAIRUS COLLINS, Supt.

JAMES BARROWMAN and W. WHITE, Mine Bosses.

WENONAH C. & C. CO.

No. 513. *Wenonah Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The coal mined is Pocahontas Smokeless, which averages in thickness 4 feet. The roof of the mine is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

E. J. VANDEGRIFT, Supt.

J. H. BRAGG, Mine Boss.

HIAWATHA C. & C. CO.

No. 514. *Hiawatha Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The seam of coal operated is Pocahontas Smokeless, which averages in thickness 4 feet. The roof of the mine is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

J. W. VANDEGRIFT, Supt.

JNO. SHREWSBURY, Mine Boss.

THE SMOKELESS C. & C. CO.

No. 515. *Smokeless Mine*.—This mine was inspected twice during the

year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 4 feet. The roof of the mine is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

O. N. MOONAER, Supt.

C. C. THOMPSON, Mine Boss.

PAAMA COAL & COKE CO.

No. 516. *Paama Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness $3\frac{1}{2}$ to 4 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirement of law. This mine is located on Widewouth at the town of Matoaka.

J. CAMPBELL STRAS, Supt.

SHIREY COAL CO.

This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 7, which averages in thickness 3 to 4 feet. The roof is good, drainage fair. This mine since they built the tippie and put in rope haulage has not shipped any coal. Standing idle.

J. C. SHIREY, Mgr.

CEPHAS COAL CO.

No. 517. *Cephas Mine*.—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to $4\frac{1}{2}$ feet. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

T. D. LEE, Supt.

DAVE THOMPSON, Mine Boss.

MINGO COUNTY.

PEARL COAL MINING CO.

No. 518. *Camp Branch Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Gas Coal, which averages in thickness 4 feet. The roof is good, drainage moderate, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JAS. R. BOOTH, Supt.

A. MITCHELL, Mine Boss.

No. 519. *Pearl Mine*.—This mine was worked out and abandoned during the year.

J. R. BOOTH, Supt.

JOHN KERNS, Mine Boss.

No. 520. *Alma or Sprigg Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The coal mined is known as Thacker, which averages in

thickness 4 feet. The roof of the mine is good, drainage moderate, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JAS. R. BOOTH, Supt.

JOHN MURPHY, Mine Boss.

No. 521. *Haggerty Mine*.—This mine was inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Lower Kittanning, which averages in thickness 4 to 5 feet. The roof is good, drainage fair, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

JAMES R. BOOTH, Supt.

JOHN BOOTH, Mine Boss.

RED JACKET CONSOLIDATED C. & C. CO.

No. 522. *Rutherford Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

W. R. WILBURN and C. D. JONES, Supts.

CHAS. ADAMS and WM. MUSSER, Mine Bosses.

No. 523. *Red Jacker (& Logan) Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. This mine operates the Thacker seam of coal, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. R. WILBURN and C. O. JONES, Supts.

W. E. FUNK and JNO. ADAMS, Mine Bosses.

No. 524. *Maritime Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

E. C. LAMBERT and S. T. LAMBERT, Supts.

JAS. MAYNARD, Mine Boss.

No. 525. *Lick Fork Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. This mine operates the Thacker seam of coal, which averages in thickness 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules posted at the mine.

E. C. LAMBERT and C. O. JONES, Supts.

W. R. WILBUR and A. CAPLEY, Mine Bosses.

No. 526. *Grapevine Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The name of coal mined is Thacker, which averages in thick-

ness from 6 to 11 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

S. T. LAMBERT, Supt. J. B. JOHNSON and C. J. ADAMS, Mine Bosses.

THACKER COAL & COKE CO.

No. 527. *Thacker Mine No. 1.*—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The seam of coal mined is Thacker, which averages in thickness from 6 to 7 feet. The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITHS, Supt. T. A. BUFORD and GEO. BOYD, Mine Bosses.

No. 528. *Thacker Mine No. 2.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Thacker, which averages in thickness from 6 to 9 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

THOS. GRIFFITHS, Supt. JAS. GENT and HUGH BOYD, Mine Bosses.

No. 529. *Thacker Mine No. 3.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Thacker, which averages in thickness 6 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

THOS. GRIFFITHS, Supt.

T. A. BUFORD, Mine Boss.

No. 530. *Thacker Mine No. 10.*—This mine was inspected one time during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 6 to 9 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

THOS. GRIFFITHS, Supt.

LEANDER COX, Mine Boss.

No. 531. *Lynn Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITHS, Supt.

TILDEN VARNEY and A. J. YOUNCE, Mine Bosses.

GLEN ALUM COAL CO.

No. 532. *Glen Alum No. 1 Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages 6 feet of clean coal. The roof is good, drainage good, ventilation perfect, general safety of all entries and rooms is good. Oil used meets the requirements of the

law. Rules are posted at the mine.

P. P. FLANAGAN, Supt.

M. FLANAGAN, Mine Boss.

No. 533. *Glen Alum No. 2 Mine*.—The mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Thacker, which averages in thickness 6 feet. The roof is good, drainage good, ventilation perfect, general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

P. P. FLANAGAN, Supt.

JAMES FLANAGAN, Mine Boss.

NOLAN COAL CO.

No. 534. *Winifrede or Nolan Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Kittanning, which averages in thickness 2 to 3 feet. The roof is good, drainage fair, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. H. SMITH and B. MOORE, Supts.

A. H. MITCHELL, Mine Boss.

WAR EAGLE COAL CO.

No. 535. *War Eagle Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Kittanning, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

GEORGE W. COFFEY, Supt.

W. J. WILLIAMS and M. F. BOOTH, Mine Bosses.

No. 536. *Pappoose Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. The seam of coal operated is Lower Kittanning, which averages in thickness 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

GEORGE W. COFFEY, Supt.

J. K. COFFEY, Mine Boss.

HATFIELD COLLIERY CO.

No. 537. *Hatfield Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal mined is Kittanning, which averages in thickness 3 to 4 feet. The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JOHN E. WILLIAMS and J. W. McCLAREN, Supts.

J. R. BLANTON and JOS. DICKERSON, Mine Bosses.

CULROSS COAL CO.

No. 538. *Jackson Mine*.—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Kittanning, which averages in thickness

3 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

J. F. MITCHELL and C. CULROSS, Supts. SAM MOORE, Mine Boss.

MATE CREEK COAL CO.

No. 539. *Mate Creek Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. T. LAMBERT Supt.

WM. FARNE and WM. SIZEMORE, Mine Bosses.

MARVIN COAL CO.

No. 540. *Marvin Mine.*—This mine was regularly inspected two times during the year, when the condition in regard to safety was found good. The seam of coal operated is Thacker, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

J. A. WILLIAMS, Supt.

GEO. WILLIAMS and JAMES GENT, Mine Bosses.

GEO. F. BOOTH, Fire Boss.

THE MARGARET MINING CO.

No. 541. *Margaret Mines.*—This operation was inspected once during the year, when it was found in the following condition: Ventilation good, drainage good, timbering good, general safety good. The Lower Kittanning coal is operated. There are 5 drift openings in this operation, 3 of which shipped coal during the past year.

JAMES CLARK, Supt.

GEORGE MONTGOMERY, Mine Boss.

H. A. SHAFFER, LESSEE.

No. 542. *Star Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Lower Kittanning, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

H. A. SHAFFER, Supt.

E. L. BRUNK, Mine Boss.

CEDAR COAL CO.

No. 543. *Cedar Mine.*—This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Lower Kittanning, which averages in thickness 3 to 4 feet. The roof is good, drainage good, ventila-

tion perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

A. A. MITCHELL, Supt.

R. C. MITCHELL, Mine Boss.

MERRIMAC COAL & COKE CO.

Nos. 544 and 545. *Merrimac Mines*.—These mines were regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JOHN E. WILLIAMS, Supt.

JOHN McGUIRE, C. A. McCOY and W. G. RAYNES, Mine Bosses.

WILLIAMSON COAL & COKE CO.

No. 546. *Williamson Mine*.—This mine was inspected twice during the past year, when the conditions in regard to safety were found good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. T. POOLE, Supt. T. E. ELKINS and LEE ATKINSON, Mine Bosses.

GOODMAN COAL & COKE CO.

No. 547. *Goodman Nos. 1 and 2, or Sugar Tree Mine*.—These mines were inspected two different times during the year, when the condition in regard to safety was found good. The seam of coal operated is Winifrede, which averages in thickness 5 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

R. D. BALDWIN, Supt.

JOHN NEWCOME, Mine Boss.

HOWARD COLLIERY CO.

No. 548. *Howard Mine*.—This mine was inspected once during the past year, when the condition in regard to safety was found to be good. The seam of coal mined is Winifrede, which averages in thickness 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

F. L. SCHOEWE, Supt.

JNO. RUEGER, Mine Boss.

CHATTAROY COLLIERY CO.

No. 549. *Chattaroy Mine*.—This mine was inspected twice during the year, when the conditions in regard to safety were found good. The seam of coal operated is Winifrede, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

C. E. TABOR, Supt.

J. V. HACKWORTH, Mine Boss.

THE BUFFALO COLLIERIES CO.

No. 550. *Buffalo Mine*.—This mine was inspected two different times during the year, when the condition in regard to safety was good. The coal mined is Winifrede, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

S. V. PRESTON, Supt.

L. D. JEFFERSON, Mine Boss.

RAWL COAL & COKE CO.

Nos. 551 and 552. *Rawl Nos. 1 and 2 Mines*.—These mines were regularly inspected two different times during the year, when the condition in regard to safety was found to be good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

H. C. JONES, Supt.

THOS. W. PHILLIPS, Mine Boss, No. 1 Mine.

V. H. LAMBERT, Mine Boss, No. 2 Mine.

THE WALNUT HILLS COAL & MINING CO.

No. 553. *No. 1 Mine*.—This mine is located about one mile below the town of Naugatuck. The coal mined is the Kittanning seam, which averages in thickness 4 to 4½ feet. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are not posted.

A. T. MASSY, Supt. J. W. LEE and JOHN NEWCOME, Mine Bosses.

LINGHOCKEN COAL CO.

No. 554. *Linghocken Mine*.—This is a new mine which has just started to ship coal.

J. W. MISKEL, Supt. and Mine Boss.

WAYNE COUNTY.

EAST LYNN COAL CO.

No. 555. *East Lynn Mine*.—There are three drifts to this operation, only one of which is shipping coal.

L. A. CARDEN, Supt. and Mine Boss.

PIKE COUNTY, KENTUCKY.

PIKE COLLIERY CO.

This mine is located on the Kentucky side in Pike County, and the tipple on the West Virginia side. The coal mined is the Thacker seam, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation fair, and general safety on all entries and rooms is good.

J. R. PADDICK, Gen. Mgr.

BORDER LINE COLLIERY CO.

This mine is located on the Kentucky side in Pike County, and the tip-

ple is on the West Virginia side. The coal mined is the Lower Kittanning, which averages in thickness $3\frac{1}{2}$ to $4\frac{1}{2}$ feet. The roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good.

CHAS. GARDNER, Mine Boss.

VOLCUM COAL CO.

This mine was regularly inspected two different times during the year, when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of law. Rules are posted at the mine.

A. D. RICE, Supt.

S. LAMBERT, Mine Boss.

FIFTH DISTRICT.

GENERAL SUMMARY OF THE FIFTH DISTRICT FOR THE
YEAR ENDING JUNE 30, 1905.

COUNTY.	EMPLOYEES.										PRODUCTION.		
	No. of Openings.	No. of Men Killed.	Inside.					Outside.			Grand Total.	Coal (tons of 2,240 lbs.)	Coke (tons of 2,000 lbs.)
			Pick Miners.	Machine Miners.	Machine Runners & Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.			
Barbour....	17	2	254	162	58	167	641	130	13	143	784	556,158	14,967
Grant	4	2	51	82	27	48	208	36	...	36	244	167,053	.....
Mineral....	15	3	595	.....	.....	73	668	69	.....	69	737	505,171	.....
Preston....	21	5	469	364	110	248	1,191	135	146	281	1,472	651,122	79,757
Randolph..	8	...	362	.....	.....	65	427	46	128	174	601	416,834	146,243
Taylor.....	6	...	190	30	2	124	346	62	.....	62	408	252,161	.....
Tucker.....	11	4	515	138	34	193	880	112	233	345	1,225	961,293	231,500
Totals. ..	82	16	2,436	776	231	918	4,361	590	520	1,110	5,471	3,509,792	469,467

OFFICE OF THE FIFTH DISTRICT MINE INSPECTOR.

ELM GROVE, W. Va., August 23, 1905.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.

Sir:—

I herewith respectfully submit for your consideration the report on the condition of the mines in the Fifth District that I have regularly inspected since the beginning of my term of office, December 1st, 1904, until the ending of the year June 30th, 1905.

During this time I made one hundred and twenty-six visits to regularly inspect the mines. During eighty-nine of these visits regular inspections were made, the other thirty-seven visits were made to mines that were found not to be in operation at the time. Eleven other visits were made to inquire into accidents and other matters.

I regret to state that during my term of service there have been forty-one accidents in the district, sixteen of which have been fatal and twenty-five non-fatal. I have endeavored to investigate all accidents and upon investigation I found that some of these accidents were due to carelessness of the employes and some due to the carelessness of those employed in working under loose slate and in handling explosives.

Three new mines have been developed: Sara Mine, in Barbour County; Gleason Mine, in Mineral County, and one in Taylor County, which I have not as yet visited.

A comparison of the different types of mining machines in use in the

different machine mines in the district will show that the chain cutter to be the best adapted in the No. 8 or Pittsburg vein, and the compressed air machines of the puncher type in the Freeport and Kittanning seams.

General dullness, with little demand and poor prices, marked the close of this year, especially is this true of the coke trade, more than half of the ovens in this district being out of blast. Very few of the mines are working more than half time.

Owing to my short term of office I have not been able to inspect all of the mines, or to give a detailed account of them as I would like to.

Hoping that in the coming year I shall be able to give you a more detailed report and that there will be a better and more prosperous year for both miners and operators, I am,

Yours very truly,

E. V. BYRNE,

Mine Inspector, Fifth District.

CONDITION OF THE MINES IN THE FIFTH MINING DISTRICT.

EDWARD V. BYRNE, *Inspector.*

BARBOUR COUNTY.

DAVIS COLLIERY CO.

No. 556. *Junior Mine.*—This mine was regularly inspected twice between December, 1904, and August, 1905. Conditions in regard to safety were found good. Drainage was good and ventilation only fair.

During the first visit I recommended that trap door be put on No. 6 right entry and that the air course be cleaned. On the second visit I found that the trap door had been placed and that the work on the air course was in progress.

The present fan is too small for ventilating the mine and I recommended that a larger fan be installed. The law in regard to the amount of powder that a miner should take into the mine was not being enforced. Many of the miners had kegs of powder in the mine, which were ordered to be taken to the outside. The order was complied with.

Rules were posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found being used.

A copy of mine map extended to August, 1903, has been furnished this office.

A. C. FINLEY, Supt.

H. C. HASKINS, Mine Boss.

PHILIPPI COAL MINING CO.

No. 557. *Philippi Nos. 1, 2, 3 and 4 Mines.*—These mines were visited twice between December, 1904, and August, 1905. On the first trip it was regularly inspected, but on the second trip it was closed (not in operation).

This mine was in good condition. The conditions in regard to safety were good. Drainage and ventilation are good throughout the mine. Rules were posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes kept on hand.

This mine has everything that the law requires kept on hand for cases of emergency.

A copy of mine map extended to January, 1904, has been furnished this office.

LEE J. SANDRIDGE, Supt.

G. B. MYERS, Mine Boss.

TYGARTS RIVER COAL CO.

No. 558. *Arden Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905. The conditions in regard to safety were found good. On the first visit drainage was only fair, but on the second it was good. Ventilation was good.

Rules were posted, blankets and stretchers kept on hand, and good quality of oil for illuminating purposes was found in use.

The date of last copy of mine map furnished this office is December 1st, 1904:

CHARLES CRONK, Supt. and Mine Boss.

THE SOUTHERN COAL AND TRANSPORTATION CO.

No. 559. *Berryburg Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905. The conditions in regard to safety were found good. Rules are posted, blankets and stretchers kept on hand, and a mixed quality of oil was being burned for illuminating purposes, and their attention was called to it.

The law in regard to the amount of powder a miner should take into a mine was not being enforced. Several of the miners had kegs of powder in the mine that were ordered taken to the outside. The order was complied with.

There were five accidents in this mine, two proved fatal, and three non-fatal. These accidents were unavoidable on the part of the company. A copy of mine map, extending to January 1st, 1905, has been furnished this office.

R. D. EDWARDS, Supt.

DAVID D. EDWARDS and A. J. McNALLY, Mine Bosses.

THOMAS EDWARDS, Fire Boss.

LAUREL CREEK COAL CO.

No. 560. *Laurel Creek Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905. During the last visit the mine was not in operation and no inspection was made.

The conditions in regard to safety were found to be good. Drainage and ventilation were good. Rules were posted, and blankets and stretchers kept on hand. A good quality of oil for illuminating purposes was found to be in use.

A copy of mine map extending to January 1st, 1904, has been furnished this office.

W. S. BRYDON, Supt.

J. H. RITTER, Mine Boss.

THE CENTURY COAL CO.

No. 561. *Century Shaft*.—This mine was regularly inspected twice be-

tween December, 1904, and August, 1905. It is one of the most modern mines in the State. The conditions in regard to safety were found good. It is one of the best ventilated mines in the State. The drainage is good. Rules were posted, and blankets and stretchers kept on hand. An inferior quality of oil was used, but not handled by the company. The stores (two) that handled the oil were notified to handle the legal test and they said that they would.

There were two accidents in this mine, one man was killed by a fall of slate and the other man has his arm broken by a car jumping the track.

A small quantity of gas was found at entry F. There is no map of this mine at this office, but during the last visit the superintendent said that an extension was in progress, but that it was not yet completed.

J. C. WARD, Supt.

EDWARD WILLIAMS, Mine Boss.

A. B. McMURDO and SAMUEL BEAVERS, Fire Bosses.

No. 562. *Century Drift*.—This mine has not been in operation for a year and no inspection was made.

J. C. WARD, Supt.

PATRICK WOODS, Mine Boss.

VALLEY COAL AND COKE CO.

No. 563. *Valley Mine*.—This mine was found not to be in operation during either of my visits between December, 1904, and August, 1905. F. A. COLEMAN, Supt.

GRAFTON FUEL CO.

No. 564. *Lillian Mine*.—This mine has been visited twice between December, 1904, and August, 1905. During my first visit it was found not to be in operation and no inspection was made. On my second visit I found that it had changed from Freeport Smokeless Coal and Coking Co. to The Grafton Fuel Co.

It was regularly inspected, with the following results: This mine was being repaired in all departments and conditions in regard to safety, ventilation, drainage and timbering were all considered good under these conditions.

The mine map extended to January 1st, 1903, has been furnished this office.

W. S. BRYDON, Supt.

F. E. ROBINSON, Mine Boss.

THE PENNSYLVANIA COAL AND MINING CO.

No. 565. *Adma Mine*.—This mine was visited twice between December, 1904, and August, 1905. The first time it was regularly inspected, but the second time it was not in operation and no inspection was made.

This mine had neither a fan nor a furnace. A fan was recommended and during my second trip I found that a furnace had been installed.

Conditions in regard to safety were good, drainage and ventilation were good. A good quality of oil for illuminating purposes was found in use.

No map of mine has been furnished this office.

H. W. WETZEL, Supt.

EDMON PEARSON, Mine Boss.

THE CLEMENTS COAL AND COKE CO.

No. 566. *Clements Mine*.—This mine was visited twice between December, 1904, and August, 1905. It was not in operation during either visit. I inspected the mine while not in operation and considered the conditions good.

This office has never been furnished a mine map of this mine.

W. P. HURST, Supt.

WM. KOOZER, Mine Boss.

DAVIS COAL & COKE CO.

No. 567. *Dartmoor Mine*.—This mine was not in operation either time that I was in the county. It was formerly operated by the Maryland Smokeless Coal Co.

MILLER COAL AND COKE CO.

No. 568. *Sara Mine*.—This mine was regularly inspected once on June 17th, 1905. This mine is located on a branch of the West Virginia Central, running from Belington to Elkins at Gage, one mile southwest of Junior.

Work was commenced on this mine October 1st, 1904, and started operations on February 15th, 1905. This mine is worked on the double entry system and is a first class mine, having all modern improvements. A fan was on the ground ready to be installed.

Conditions in regard to safety are good. Drainage and ventilation were good. A good quality of oil for illuminating purposes was found to be in use.

No map of this mine has yet been completed.

J. W. S. MILLER, Supt.

W. O. HAYES, Mine Boss.

PENNSYLVANIA FUEL CO.

No. 569. *Volga No. 1 Mine*.—This is a new mine just started shipping coal.

J. W. MILLER, Supt.

D. E. BROWN, Mine Boss.

*GRANT COUNTY.**DAVIS COAL AND COKE CO.*

Nos. 570 and 571. *Henry Shaft No. 22*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were good. Ventilation was good throughout the mine and drainage was only fair. The Thomas or Freeport seam is operated.

Rules were posted, blankets and stretchers kept on hand. Two accidents, one fatal and one non-fatal, occurred in this mine. A good quality of oil for illuminating purposes was found to be in use.

A map of this mine extended to January, 1905, has been furnished this office.

Henry Shaft No. 33.—This mine was regularly inspected once between December, 1904, and August, 1905.

This mine, which is in the lower Kittanning or Davis seam, is of a gaseous nature and has not been in operation for about one year, but the company was getting ready to operate this mine and on the date of inspection no gas was found. I recommended that break-throughs between

entries be placed every 65 feet and that open lights could be used at present. Ventilation was good and drainage fair.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was used for illuminating purposes.

A map of this mine extended to July, 1904, has been furnished this office.

J. G. BOYD, Supt.

F. A. SHARPE, Mine Boss.

THOS. WELSH, Fire Boss.

MARION COAL & COKE CO.

No. 572. *Barnum or Marion Mine.*—This mine was not inspected by me.

JOHN JOSE, Supt.

BUFFALO CREEK CUMBERLAND COAL CO.

No. 573. *Buffalo Creek Mine.*—This mine was not inspected by me. RICHARD WADDELL Supt and Mine Boss.

MINERAL COUNTY.

DAVIS COAL & COKE CO.

No. 574. *No. 19.*—This is a prospect opening and not producing coal at present.

O. TIBBETS, Supt.

JOE TIBBETS, Mine Boss.

No. 575. *No. 18 Mine.*—This mine has been worked out and was abandoned during July, 1904.

O. TIBBETS, Supt.

No. 576. *No. 8 Mine.*—This mine has been worked out and was abandoned during September 1904.

O. TIBBETS, Supt.

LOUIS GRANT, Mine Boss.

No. 577. *No. 20 Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation and drainage were found to be good in all parts of the mine.

Rules were posted, blankets and stretchers kept on hand. A map, extended to December 13th, 1904, of this mine, has been furnished this office.

A good quality of oil was found to be in use.

LEE OTT, Supt.

B. S. COLEMAN, Mine Boss.

No. 578. *No. 9 Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found to be good. Ventilation and drainage were found good.

Rules were posted, blankets and stretchers were kept on hand. Oil used meets the requirements of the law.

A map of this mine, extended to June 30th, 1904, has been furnished this office.

LEE OTT, Supt.

JACOB OTT, Mine Boss.

No. 579. *No. 6 Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety

were found to be good. Ventilation was found good, drainage was only fair. There was one accident in this mine which proved fatal.

Rules were posted, blankets and stretchers were kept on hand. A good quality of oil for illuminating purposes were found to be in use. A map of this mine, extended to January, 1905, has been furnished this office.

LEE OTT, Supt.

FUNSTON WILSON, Mine Boss.

SMITH COAL COMPANY.

No. 580. *Smith Mine.*—This mine was not in operation and no inspection was made.

R. A. SMITH, Supt.

W. D. WALKER, Mine Boss.

STAFFORD COAL MINING CO.

No. 581. *Virginia Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation was only fair, drainage was good throughout the mine.

Rules were posted, blankets and stretchers were kept on hand, and a good quality of oil was found to be in use for illuminating purposes.

A map of this mine extended to January, 1904, has been furnished this office.

F. A. HUSTED, Supt.

EDWARD BRANNEN and W. J. HERNDON, Mine Bosses.

BIG VEIN COAL CO. OF WEST VIRGINIA.

Nos. 482 and 483. *Big Vein and Four-foot Mines.*—These mines were not in operation and no inspection was made.

A map of this mine extended to May, 1904, has been furnished this office.

C. F. JERDAN Supt.

J. W. LILLEN, Mine Boss.

TAYLOR COAL COMPANY.

No. 584. *Taylor Mine.*—This mine was not in operation and no inspection was made.

WM. C. LAREW, Supt. and Mine Boss.

MASTELLER COAL COMPANY.

No. 585. *Hampshire Four-foot Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to general safety were found good. Ventilation and drainage were found good. There were two accidents in this mine which proved fatal.

Rules were posted, blankets and stretchers were kept on hand. A good quality of oil was found to be in use.

A map of this mine extended to July, 1904, has been furnished this office.

MICHAEL MASTELLER, Supt.

HENRY BYER, Mine Boss.

ABRAMS CREEK COAL AND COKE COMPANY.

No. 586. *Oakmont Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard

to safety were found to be good. Ventilation was only fair, and a fan was recommended, as the present furnace is too small to ventilate the mine. Their attention was called to the brattices being in bad shape.

Drainage only fair. A good quality of oil was found in use for illuminating purposes.

Rules were posted, blankets and stretchers were kept on hand.

A map extended to January, 1905, of this mine, has been furnished this office.

A. P. BRADY Supt.

L. D. VAUGHN, Mine Boss.

WABASH AND POTOMAC COAL COMPANY.

No. 587. *Wabash Mine*.—This mine was not in operation and no inspection was made.

A. D. GILLESPIE, Supt.

GLEASON COAL AND COKE COMPANY.

No. 588. *Gleason Mine No. 1*.—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were considered good. Ventilation and drainage were considered good. This is a new mine, and is worked on the double entry system. It has been opened during the past year, and is located twenty-two miles west of Piedmont on the main line of the West Virginia Central and Pittsburg Railroad. It is a drift opening in the Freeport or Thomas seam, which varies in thickness from three and a half to four and a half feet. A 475-foot plane connects the mine with the tippie.

A good quality of oil was found to be in use for illuminating purposes. There were two accidents in this mine, one proved fatal and one non-fatal. The company has not yet furnished this office with a mine map as is required.

S. F. SHELLY, Supt.

D. T. WILLIAMS, Mine Boss.

PRESTON COUNTY.

AUSTEN COAL AND COKE CO.

No. 589. *Austen Mine No. 1*.—This mine was regularly inspected twice between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation and drainage were found only fair. On my second trip drainage had been improved to some extent. An opening is being driven, which will be a great benefit to the ventilation.

Rules are posted, blankets and stretchers kept on hand, and a good quality of oil was found in use.

A map of this mine extended to January, 1904, has been furnished this office.

F. W. HORCHLER, Supt.

A. R. MURPHY, Mine Boss.

No. 590. *Austen No. 2 Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905, when the conditions in regard to safety were found to be good. Ventilation and drainage were found good.

Rules were posted, blankets and stretchers kept on hand, a good quality of oil was found to be in use for illuminating purposes.

A map of this mine extended to January, 1904, has been furnished this office.

F. W. HORCHLER, Supt.

G. R. COOK, Mine Boss.

HAMILTON COAL AND COKE CO.

No. 591. *Newburg Shaft*.—This mine was regularly inspected twice between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation and drainage are good throughout the mine. In some parts of the mine small quantities of explosive gas are given off, but owing to extra precautions taken it is rendered safe. At face of main heading 18,000 cubic feet of air per minute.

Rules were posted, blankets and stretchers kept on hand.

A map of this mine extended to May 1900, has been furnished this office. A good quality of oil was found to be in use.

JOHN HUMPHREYS, Supt. and Mine Boss. WM. GINNISS, Fire Boss.

GORMAN COAL & COKE CO.

Nos. 592 and 593. *Gorman No. 1 and No. 2 Mines*.—These mines were regularly inspected twice between December, 1904, and August, 1905.

The conditions in regard to safety were found to be good in No. 2, in No. 1 only fair, and their attention was called to this matter. No. 1 is ventilated with a furnace, which does not give a sufficient amount of air, as the furnace is located about 75 feet inside of the stack, which causes the air to be baffled.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was found to be in use.

A map of this mine extended to January, 1904 has been furnished this office.

DOUGLAS GORMAN, Supt.

J. C. WELSH, Mine Boss.

IRONA COAL CO.

No. 594. *Irona No. 1 Mine*.—This mine was regularly inspected twice, between December, 1904, and August, 1905.

Conditions in regard to safety were found to be good. Ventilation was only fair, drainage good.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil found to be in use for illuminating purposes.

A map of this mine extended to February, 1904, has been furnished this office.

GEO. KING, Supt.

RAY SPENCER, Mine Boss.

No. 595. *Irona No. 2 Mine*.—This mine was regularly inspected twice between December, 1904, and August, 1905.

Conditions in regard to safety were found to be good.

Ventilation was only fair; drainage was good.

An accident occurred in the mine that proved fatal and also one on the outside at the tippie, proved fatal.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was found to be in use.

A map of this mine extended to February, 1904, has been furnished this office.

GEORGE KING, Supt.

RAY SPENCER, Mine Boss.

No. 596. *Irona No. 3 Mine*.—This mine was regularly inspected once. This is a new opening made within the last year. Their object is to connect this mine with No. 1 mine, in order to make a shorter haulage from No. 1 to the tipple.

Ventilation was found to be bad, drainage was only fair, as their entries at present are in a local dip. There was some suggestions offered that they put in larger furnace, as the present one is too small, as it is only a fire basket. The management of these mines has changed hands, and they are now under rapid improvement.

Conditions in regard to safety were found to be good.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was found to be in use. This office has not yet been furnished with a copy of the mine map.

GEORGE KING, Supt.

RAY SPENCER, Mine Boss.

MERCHANTS COAL CO.

Nos. 597 and 598. *Tunnelton Nos. 1, 2 and 3 Mines*.—These mines were regularly inspected twice between December, 1904, and August, 1905, excepting No. 1 Mine, which was not in operation on my second visit.

As to general safety, conditions were found to be good. No. 1 Mine is ventilated by a furnace; Nos. 2 and 3, by a fan. Ventilation and drainage were found good throughout the mines.

Rules were posted, blankets and stretchers were kept on hand. A good quality of oil for illuminating purposes was found in use.

A copy of mine map extended to January, 1904, has been furnished this office.

D. R. PHILLIPS, Supt.

GEORGE CUMMINGS, Mine Boss, Mine No. 1.

W. B. EDWARDS, Mine Boss, Mines No. 2 and 3.

OAKLAND COAL AND COKE CO.

No. 599. *Corinth Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. On my second trip mine was found not to be in operation, and no inspection was made. This mine is undergoing large improvements. Condition in regard to safety was found to be good. Ventilation and drainage only fair.

Rules were posted, blankets and stretchers kept on hand. A good quality of oil was found in use for illuminating purposes.

A map of this mine extended to July, 1903, has been furnished this office.

S. H. JORDAN, Supt.

J. B. BURK, Mine Boss.

KINGWOOD COAL COMPANY.

No. 600. *Howesville Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. On my second visit the mine was found not to be in operation and no inspection was made. Conditions

in regard to safety were found good. Ventilation was found good, drainage was only fair.

Rules were posted, blankets and stretchers were kept on hand, and the oil used meets the requirements of the law.

Map of this mine extended to March, 1905, has been furnished this office.

E. V. GOECKE, Supt.

L. W. DONAHUE and R. S. LA RUE, Mine Bosses.

HITE COAL AND COKE COMPANY.

No. 601. *Dixie Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. On my second trip, mine found not in operation, and no inspection was made.

Conditions in regard to safety were found good. Ventilation and drainage were found satisfactory throughout the mines.

Rules are posted, blankets and stretchers kept on hand. A good quality of oil was found on hand for illuminating purposes.

This office has never been furnished a map of this mine.

R. M. HITE, Supt.

ALFRED FORTNEY, Mine Boss.

ORR COAL AND COKE COMPANY.

No. 602. *Vulcan Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. On my second visit to this mine it was found to be closed down and in the hands of receivers, and no inspection was made.

Conditions in regard to safety were found good. Ventilation was found good. Drainage only fair.

Rules are posted, blankets and stretchers found on hand. Oil for illuminating purposes meets the requirements of the law.

A map of this mine extended to October, 1904, has been furnished this office.

ROBT. MCGRAW, Supt.

R. F. LARUE and U. G. DEAHL, Mine Bosses.

THE MANUFACTURERS COAL AND COKE COMPANY.

No. 603. *Victoria No. 1 Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation was only fair. Manager's attention was called to the ventilation, as there is explosive gas found in small quantities in the mine at times. Drainage was found good throughout the mine.

Rules were posted, blankets and stretchers were kept on hand. Oil used for illuminating purposes was of a standard quality.

No map has been furnished this office. The attention of the company has been called to the matter, and request made that a map be furnished.

J. H. LAREW, Supt.

JIM PHILLIPS, Mine Boss.

J. R. PURINTON, Fire Boss.

No. 604. *Irondale or Victoria No. 2 Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions were found good. Ventilation and drainage were found good.

Rules posted, blankets and stretchers kept on hand. Oil for illuminating purposes was found good.

JOHN H. LAREW, Supt and Mine Boss.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

No. 605. *Shrader Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation and drainage were found good throughout the mine. One accident, non-fatal, occurred.

Rules were posted, blankets and stretchers were kept on hand. Oil used for illuminating purposes was of a standard quality.

No map of this mine has been furnished this office.

C. L. FORTNEY and W. F. HARVEY, Supts.

C. L. FORTNEY and W. F. HARVEY, Mine Bosses.

ATLANTIC COAL AND COKE COMPANY.

Nos. 606 and 607. *Atlantic Mines Nos. 1 and 2.*—The No. 1 mine was regularly inspected twice between December, 1904, and August, 1905. Mine No. 2 was not in operation on either of my visits, and no inspections were made.

Conditions in regard to safety were found good. Ventilation on my first visit was good, with the exceptions of three headings that the air courses were behind, and on the second visit to the mine I found that the management of the mine had been changed, and the mines were rapidly undergoing improvements. Two accidents, one fatal, one non-fatal occurred. Drainage was found good throughout the mine.

Rules are posted, blankets and stretchers are kept on hand. Oil on hand for illuminating purposes was found good. A map extended to February, 1904, furnished this office.

E. W. SANDRIDGE, Supt.

THOS. MACKEY, Mine Boss.

WEST VIRGINIA COAL CO.

No. 608. *No. 2 or Masontown Mine.*—This mine is under the supervision of the Inspector of the First District, I. M. Kelley. It was inspected four times during the year, when it was found in the following condition: Ventilation fair, but a 16-foot Robinson fan is being installed, which will remedy this. Drainage good, timbering good, general safety good. Oil used for illuminating purposes good.

One hundred new coke ovens are being built and an electrical plant is being installed.

J. B. HANFORD, Supt.

J. E. HAMILTON, Mine Boss.

RANDOLPH COUNTY.

DAVIS COLLIERY CO.

No. 609. *Coalton Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were good. Ventilation was found good. A large fan has just been installed. Drainage was found in fairly good condition. Rules were posted, blankets and stretchers were kept on hand. A good quality of oil

is kept on hand for illuminating purposes. A map extended to March, 1905, has been furnished this office.

A. C. FINLEY, Supt.

DAVID STODDARD, Mine Boss.

No. 610. *Harding Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions in regard to safety were found good. Ventilation and drainage were only fair. A larger fan was recommended as the present one is too small to ventilate the mine. A map of this mine extending to July, 1904, has been furnished this office. A good quality of oil was found in use for illuminating purposes. Rules were posted, blankets and stretchers kept on hand.

A. C. FINLEY, Supt.

A. C. DAVIS, Mine Boss.

No. 611. *Grassy Run Mine*.—This mine was not in operation when I was in Randolph County, and no inspection was made. A map of this mine, extended to March, 1903, has been furnished this office.

A. C. FINLEY, Supt.

DAVIS COAL & COKE CO.

No. 612. *Weaver Mine No. 1*.—This mine was regularly inspected between December, 1904, and August, 1905. The conditions in regard to safety were found good; ventilation and drainage good. Rules were posted; blankets and stretchers were kept on hand; oil for illuminating purposes meets the requirements of the law. A map of this mine, extended to July 25th, 1905, has been furnished this office.

These mines were formerly operated by the Maryland² Smokeless Coal Co.

WM. BARRICK, Supt.

JAMES STEWART, Mine Boss.

No. 613. *Weaver Mine No. 2*.—This mine was regularly inspected once between December, 1904, and August, 1905. The conditions in regard to safety were found to be good, ventilation good, drainage only fair.

There was one accident in this mine, which did not prove fatal.

Rules were posted, blankets and stretchers kept on hand; oil used for illuminating purposes meets the requirements of the law. A map of this mine, extended to July 25th, 1905, has been furnished this office.

WM. BARRICK, Supt.

J. L. THOMAS, Mine Boss.

No. 614. *Weaver No. 3 Mine*.—This mine was not in operation and no inspection was made. A map of this mine, extended to July 25th, 1905, has been furnished this office.

WM. BARRICK, Supt.

No. 615. *Leiter Mine*.—This mine was not in operation, and no inspection was made. A map of this mine, extended to January, 1905, has been furnished this office.

WM. BARRICK, Supt.

RITTER COAL CO.

No. 616. *Klondyke Mine*.—This mine was not in operation and no inspection was made. No map has been furnished this office.

W. H. GREEN, Supt. and Mine Boss.

TAYLOR COUNTY.

GRAFTON COAL AND COKE CO.

No. 617. *Sandlick*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were good. Ventilation was natural and is only fair. Drainage was only fair. Rules were posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use. A fan was recommended for ventilating purposes. A map of this mine extended to July, 1903, has been furnished this office.

J. W. FAHEY, Supt.

GEORGE ADAMS and N. B. WHITEHAIR, Mine Bosses.

PITTSVEIN COAL CO.

No. 618. *Flemington Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were good. Ventilation and drainage were fair. A mixed quality of oil was found being used for illuminating purposes. Rules were posted, and blankets and stretchers kept on hand. A mine map extended to January, 1904, has been furnished this office.

J. W. DAVIDSON, Supt.

G. R. W. JOHNSON, Mine Boss.

DAVIS-BRYDON COAL CO.

No. 619. *Brydon or Foster Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions as to general safety were only fair. Ventilation and drainage were both bad. I recommended that the water be removed and that the mine be properly ventilated. Rules were posted, and blankets and stretchers kept on hand. A good quality of oil for illuminating purposes was found to be in use. A map of this mine extended to December, 1904, has been furnished this office.

W. J. PHILLIPS, Supt. and Mine Boss.

No. 620. *T. B. Davis Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. The conditions in regard to safety were good. Ventilation was only fair and a fan was recommended. Drainage was good. Rules were posted, and blankets and stretchers kept on hand. A good quality of oil for illuminating purposes was found in use. A mine map of this mine extended to August, 1904, has been furnished this office.

W. R. DAVIS, Supt.

T. A. FLEMING, Mine Boss.

DAVIS COAL AND COKE CO.

No. 621. *New York or No. 41 Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. The conditions in regards to general safety were good. Ventilation was only fair throughout the mine and a fan was recommended. Drainage was good. Rules were posted; blankets and stretchers kept on hand. Oil for illuminating purposes was only fair. Brattices were also recommended to be placed in their proper places. Two accidents, non-fatal, occurred in this mine. A mine

map of this mine extended to January, 1905, has been furnished this office.
M. L. GARVEY, Supt.

JOHN McDONNELL and JOHN PEARSON, Mine Bosses.

ROSEMONT COAL CO.

No. 622. *Rosemont Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were good. Ventilation was only fair throughout the mine and a fan was recommended. Drainage was good. Rules were posted and blankets and stretchers kept on hand. A good quality of oil for illuminating purposes was found to be in use. Map of this mine extended to May, 1904, has been furnished this office.

J. W. FAHEY, Supt.

FRANK SAVAGE, Mine Boss.

TUCKER COUNTY.

DAVIS COAL AND COKE CO.

No. 623. *No. 23, or Thomas Drift Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good. Ventilation was good; drainage was found to be only fair. Rules were posted; blankets and stretchers were kept on hand. Oil used for illuminating purposes meets the requirements of the law. A map showing the workings of this mine, extended to June 30th, 1905, has been furnished this office.

L. S. McDOWELL, Supt.

ALEX CLOSE, Mine Boss.

No. 624. *No. 34, or Thomas Shaft Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were only fair. Ventilation and drainage throughout the mine were found to be bad. Some recommendations were offered: that the mine be properly ventilated, and properly drained, as it is not up to the requirements of the law. Rules were posted, and blankets and stretchers kept on hand. A map extended to June 30th, 1905, has been furnished this office. A good quality of oil was found to be in use.

L. S. McDOWELL, Supt.

WM. P. CUNNINGHAM and THOS. MALLEY, Mine Bosses.

No. 625. *No. 25, or Thomas No. 3 Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905, when conditions in regard to safety were found good. Ventilation good; drainage only fair. No explosive gas was found. Oil used for illuminating purposes meets the requirements of the mine law. Rules were posted, blankets and stretchers were kept on hand. A map of mine extended to June 30th, 1905, has been furnished this office.

L. S. McDOWELL, Supt.

G. L. CAMPBELL, Mine Boss.

ARTHUR STEWART, Fire Boss.

No. 626. *No. 35, or Coketon No. 1 Mine*.—This mine was regularly inspected once between December, 1904, and August, 1905. Conditions in regard to safety were found good; ventilation found good; drainage fair. Rules were posted; blankets and stretchers kept on hand. A mixed oil was

found to be kept on hand for illuminating purposes. A map extended to January, 1905, has been furnished this office.

L. S. McDOWELL, Supt.

L. J. KILROY, Mine Boss.

No. 627. *No. 36, or Coketon No. 2 Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the following conditions were found: in regard to general safety, only fair; ventilation and drainage fair; in the right section of the mine trap doors and brattices were in a bad condition and quite a considerable amount of black damp was found in working places in this section of the mine. Some suggestions were made that the air course be cleaned up and brattice off the old workings as the black damp is escaping from them into the working places. Rules were posted, blankets and stretchers were kept on hand; a mixed oil was found to be in use for illuminating purposes. A map extended to January, 1905, has been furnished this office.

L. S. McDOWELL, Supt.

W. J. CHRISTOPHER, Mine Boss.

No. 628. *No. 37, or Coketon No. 3 Drift Mine.*—This mine was regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found only fair; ventilation was in bad condition in all parts of the mine; drainage was bad in all parts of the mine, and brattices were in a bad condition throughout the mine. Some recommendations were offered, that the mine be properly drained and ventilated, and brattices be placed at their proper places; also trap doors. Rules were posted, blankets and stretchers kept on hand; oil used only fair. A map extended to January 1st, 1905, has been furnished this office.

L. S. McDOWELL, Supt.

W. F. REEVES, Mine Boss.

CUMBERLAND COAL CO.

No. 629. *Douglas No. 1 Mine.*—This mine was not in operation and no inspection was made. A map of this mine extended to July 1st, 1905, has been furnished this office.

J. B. JENKINS, Supt.

JAMES CHRISTOPHER, Mine Boss.

Nos. 630, 631 and 632. *Douglas Nos. 3, 4 and 5 Mines.*—These mines were regularly inspected once between December, 1904, and August, 1905, when the conditions in regard to safety were found good; ventilation and drainage throughout the mine only fair. There was one accident in No. 3 mine; a man had his neck broken by a fall of slate at the face of his working place. Rules are posted, blankets and stretchers are kept on hand; oil used meets the requirements of the mine law. A map of these mines extended to June 30th, 1905, has been furnished this office.

J. B. JENKINS, Supt.

JAMES CHRISTOPHER, Mine Boss.

BEACON COAL & COKE CO.

No. 633. *Beacon Mine.*—This mine has never been inspected by me. There have been three accidents in this mine, one of them proving fatal and the other two non-fatal.

D. G. PORTER, Supt.

FRANK BELL, Mine Boss.

THOS. W. COTHARN, Asst. Supt.

APPENDIX.

APPENDIX.

In the pages following will be found a tabulated statement of the methods of mining coal in the several districts of the State.

A close study of this table will reveal the lack of system in several localities in the State, and the wanton disregard of methods for the extraction of a larger per cent of the coal.

While it is claimed that 90 and 95 per cent of the coal is obtained in some counties, it may be found that these claims are based more upon theory than upon practical results.

Kanawha, one of the oldest mining counties, is leaving a large per cent of coal which may never be obtained.

The production of coal by Geological Series for 1905 is presented to show the extent of development in the different coal deposits.

Opinions of the Attorney General of the State are furnished as a part of this Appendix for the information contained relative to the interpretation of the mine law.

These opinions have been withheld from previous reports, but it is considered that their contents should be made a permanent record of this department by incorporating in a published report.

METHODS OF MINING COAL IN WEST VIRGINIA, 1905, COMPILED BY JAMES W. PAUL, CHIEF MINE INSPECTOR, WEST VIRGINIA.

LOCALITY.	Length of rooms in feet.	Width of rooms in feet.	Character and thickness of coal.	How are rooms driven in respect to cleavage planes.	Character of roof.	Has roof faults or slips.	Character of bottom.	Amount of cover on coal in feet.	When are pillars drawn.	Width of main entry pillars—feet.	Width of pillar between cross-entries & their cross-entries—feet.	Per cent. of coal obtained in first working.	Total per cent. of coal recovered.	Distance between cross headings in feet.	Width of entries in feet.	Typical Mine.	Name of coal bed.	Authority.
Fairmont	300 to 500	30	Firm 7 ft. 8 in. to 9 ft. 6 in.	Against the face.	Roof coal overlaid with shales and sandstone.	Few faults; occasional clay vein	Shale and fire clay.	75 to 100	Both advancing & retreating.	100 to 150	15	40	90 to 95	325 to 425	10	New England.	Pittsburg....	Mining Engineer Fairmont Coal Co.
Clarksburg..	300 to 500	18	Firm 8 ft.	Against the face..	do	do	Shale and fire clay.	50 to 100	Both advancing & retreating.	100 to 150	15	36	90	325 to 425	10	.....	do	do
Mineral Co..	500	12	Firm 12 ft.	Against the face.	Shale.....	Yes..	Sandstone....	10 to 100	As soon as rooms reach their boundary.	70	48	20	95?	500	0 cross 10 main	Elk Garden No. 8.	do	Davis Coal & Coke Co.
Tucker Co. .	250	16	Firm & soft 6 ft.	Against the face.	Soapstone & shale overlaid with heavy sandstone.	Frequent slips & clay veins.	Fire clay.....	100 to 200	Advancing immediately when rooms reach their limit.	50	30	65	90?	300	8	Coketon No. 3	Davis or Kittanning.	R. C. Simpson, Davis Coal & C. Co.
Putnam Co.	250	30	Hard 4 ft. to 6 ft. 6 in.	Against the face.	Shale & "Moonshine" coal overlaid with sandstone and shales	Faulty in places, & frequent clay veins.	Fire clay	Crop to 300	After entry and rooms have reached their limit.	40 to 42	20 to 22	64	75 to 85	500?	8 to 9	Raymond City (Big Otto.)	Pittsburg....	J. C. Child.
New River..	300	24	Soft 4 ft. to 5 ft. 5 in	Face & butts not well defined; rooms driven in any direction.	Slate, shale and sandstone.	Yes	Fire clay and shale.	100 to 800	After crossentries have reached their limit.	50	50	40	60 to 80	300 to 400	9 to 12	Sun..	Sewell-Nuttall.	Clark & Krebs.
Thacker..	250 to 500	18 to 21	Firm & soft 6 ft. to 8 ft.	On the face	Slate and sandstone.	No.	Slate and coal.	50 to 300	When rooms have reached their limit.	62	42	33	80	400 to 500	12	Thacker...	(Thacker) Lower Kittanning.	A. H. Stow
Logan.....	270	21	Firm 7 ft.	On the face.....	Slate	No. .	Very hard slate.	0 to 500	Panel system retreating.	48	48	43	9	1001	12	Holden No. 2.	?	United States Coal & Oil Co.
Kanawha	500	28	Soft to 30 12 ft. 6 in.	Any direction . .	Slate and sandstone.	Some slips. . . .	Fire clay and shale.	100 to 500	Not drawn.....	50	20 to 30	60	1	500	10	Keystone	No. 2 (also) Lower Kittanning.	J. W. Paul.
Pocahontas—Double Entry.	425 to 450	18	Soft 5 ft. to 8 ft.	Any direction	Slate overlaid with shales and sandstone.	No faults; numerous slips.	Hard slate underlaid with F. C.	300 to 500	Retreating..	60; barrier 100 to 250	50 to 60	32	80	850 to 900	12	Lick Branch.	No. 3 Pocahontas.	W. T. Williams.
Pocahontas—Panel System	300	18	Soft 5 ft. to 8 ft.	Any direction	do	do	do	300 to 500	Retreating. . . .	50	50	?	Estimated 85	1500	12	.....	do	W. T. Williams.
Raleigh . . .	300 to 350	25	Soft 4 ft. to 5 ft.	Any direction	Slate and sandstone.	Roof depressions.	Boney coal & fire clay.	0 to 300	By sections retreating	50	38 to 48	50	90	400 to 600	12	Beckley .	Sewell-Nuttall	J. C. Child.

The inclination of the coal beds of the State ranges from 0 to 8 degrees from the horizontal.

COAL PRODUCTION BY GEOLOGICAL SERIES AND COUNTIES
1905.

COUNTIES.	Monongahela Series No. 15.	Conomaugh Series (Flk River) No. 14.	Allegheny-Kan- awha Series No. 13.	Pottsville-New River-Poca- hontas Series No. 12.	Total tons of 2,240 lbs.
Barbour.....	454,997	.....	101,161	.....	556,158
Brooke.....	133,191	.....	50,612	.....	183,805
Clay.....	.....	44,495	15,960	.....	60,455
Fayette.....	.....	154,579	1,954,476	4,629,288	6,738,343
Grant.....	.....	.....	167,053	.....	167,053
Hancock.....	.....	54,458	3,571	.....	58,029
Harrison.....	2,560,905	.....	.....	.....	2,560,905
Kanawha.....	.....	387,817	2,738,821	.....	3,126,138
Lincoln.....	.....	.....	7,695	.....	7,695
Logan.....	.....	.....	127,616	.....	127,616
Marion.....	3,223,999	.....	28,000	.....	3,251,999
Marshall.....	380,666	.....	.....	.....	380,666
Mason.....	77,846	.....	.....	.....	77,846
McDowell.....	.....	.....	69,861	6,740,869	6,810,730
Mercer.....	.....	.....	.....	1,738,330	1,738,330
Mineral.....	351,546	8,752	144,873	.....	505,171
Mingo.....	.....	.....	1,375,233	.....	1,375,233
Monongalia.....	85,502	.....	93,250	.....	178,752
Nicholas.....	.....	.....	51,524	.....	51,524
Ohio.....	91,752	.....	.....	.....	91,752
Preston.....	.....	.....	651,122	.....	651,122
Putnam.....	310,576	.....	.....	.....	310,576
Raleigh.....	.....	.....	.....	661,180	661,180
Randolph.....	.....	.....	416,834	.....	416,834
Taylor.....	252,161	.....	.....	.....	252,161
Tucker.....	.....	.....	961,293	.....	961,293
Wayne.....	.....	.....	21,165	.....	21,165
Totals.....	7,923,141	650,101	8,980,120	13,769,667	31,323,029

PRODUCTION OF COAL IN WEST VIRGINIA IN 1905 ACCORDING TO GEOLOGICAL SERIES AND COAL BEDS.

COUNTIES.	Monongahela Series No. 15.			Conemaugh Series (Elk River) No. 14.			Allegheny-Kanawha Series No. 13.										Pottsville-New River-Pocahontas Series No. 12.					
	Sewickley.	Red Stone.	Pittsburg.	Elk Lick.	Mason.	Mahoning No. 5.	Upper Freeport. Lawiston.	Lower Freeport. Coalburg.	Upper Kittanning. Whitfield.	Middle Kittanning. Cedar Grove.	Lower Kittanning.			Fowellton.	Clarion No. 1 Gas.	Sewell.	Welch.	Quinnant and Beckley.	Pocahontas No. 4.	Pocahontas No. 3.	Totals.	
											Campbell's Creek.	Thacker Davis.	No. 2 Gas.									
Harbour.....		185,820	299,177				101,161														550,158	
Brooke.....			133,191				50,612														183,843	
Clay.....				44,495				15,960													60,455	
Fayette.....					154,579									1,008,631	84,051	261,794		1,107,703			6,738,843	
Graft.....						54,458	131,461	3,571				35,502									167,653	
Hancock.....																					58,429	
Harrison.....		2,540,185																			2,540,185	
Kanawha.....				351,985	35,832		133,171	630,735	692,882	133,685	2,776			975,844		169,118					3,124,438	
Lane.....							7,695														7,695	
Mariou.....	4,300		3,219,719										127,016								127,016	
Marshall.....			380,699																		3,251,999	
Mason.....			77,846																		390,690	
McDowell.....																					17,846	
Meigs.....																					6,400,730	
Mineral.....			351,546	8,752			63,561										512,542	92,137	6,136,190	1,738,330	1,738,330	
Mingo.....								2,647	254,162												565,171	
Monongalia.....			85,502				93,250						1,118,434								1,375,233	
Nichols.....								51,624													178,752	
Ohio.....																					51,624	
Preston.....							608,524														608,524	
Rutsum.....			310,576																		310,576	
Salem.....							416,834														416,834	
Shenandoah.....																					252,161	
Taylor.....			252,161																		252,161	
Tucker.....							354,431														354,431	
Wayne.....								21,165													21,165	
Totals	4,300	185,820	7,733,121	8,752	386,480	244,869	1,461,700	725,972	975,044	133,685	2,776	2,082,065	2,584,475	84,051	430,912	3,748,450	512,542	1,542,018	92,137	7,874,530	31,23,629	
Monongahela Series No. 15							7,923,141	Tons of 2,240 lbs.														
Conemaugh Series (Elk River) No. 14							630,101	Tons of 2,240 lbs.					Total 31,323,029									
Allegheny-Kanawha Series No. 13							9,800,130	Tons of 2,240 lbs.														
Pottsville-New River-Pocahontas Series No. 12							13,169,667	Tons of 2,240 lbs.														

OPINIONS OF ATTORNEY GENERAL.

POWER TO ENFORCE USE OF SAFETY LAMP.

Following an explosion in the Henry Shaft in Grant County the district inspector recommended the adoption of safety lamps and the mining statutes not being clear on this point the matter was left to the Attorney General, through the chain of correspondence following:

OFFICE OF THE FIFTH DISTRICT MINE INSPECTOR,
Elm Grove, W. Va., April 4, 1904.

HON. JAMES W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

Dear Sir—Pursuant with regulations I herewith present for your consideration a report on the accident that occurred on the afternoon of March 24th, at Henry Shaft, owned and operated by the Davis C. & C. Co. and located at Henry, Grant County, W. Va., in which accident two track men met death and one was very badly burned.

From observations made and information obtained, I would say that the accident was due to the firing of a body of explosive gas that had accumulated suddenly in a place where the track men were going to lay a switch.

I enclose a sketch of that part of the mine where the explosion occurred, also statement of mine and fire bosses as to condition of that section of the mine on the day that the accident occurred. The place marked "X" on sketch is where gas was fired, that marked "O" where body of Henderson was found, who had gone for a bucket of spikes and was blown by force of explosion against a mine timber and instantly killed.

I have recommended the immediate adoption of the use of safety lamps and suggested the Wolfe lamp with magnet lock, also that shot firers be employed to fire all shots.

Yours very truly,

(Signed) JERRY WESTLAKE.
Inspector 5th District.

THE DAVIS COAL AND COKE COMPANY,
OFFICE OF SUPERINTENDENT,
Henry, W. Va., March 18th, 1904.

On the morning of March 15th, 1904, I visited the place where the explosion occurred to put two men pick work, to drive the cross-cut to connect the air between No. 1 and No. 2 workings, having put men on No. 2 side to meet them, and found the places perfectly safe, and put them to work at 7:30 A. M. I again visited the place at 11:30 A. M., examined the place and found it clear of all noxious and explosive gases.

(Signed) JOHN E. AMBROSE,
General Foreman.

THE DAVIS COAL AND COKE COMPANY,
OFFICE OF SUPERINTENDENT,
Henry, W. Va., March 18th, 1904.

On the morning of March 15th, 1904, I made my rounds throughout the mine and examined each place and found the mine clear of gas. At 10:30 A. M. I examined the place where explosion occurred and found the place free from any explosive gas. At 1:30 P. M. I again visited the place and found it perfectly safe, Mr. F. C. Cornet, Mining Engineer, was present at this time with me.

After I had made the last examination at 1:30 P. M. I met the trackman at 1st East. He told me he was going to put a switch in 1st Left Cross-cut. I told him if he would wait a minute or so I would go with him. He said, "Place is alright, I have just been in."

(Signed) THOMAS CONERTY,
Fire Boss.

OFFICE OF THE FIFTH DISTRICT MINE INSPECTOR,
Elm Grove, W. Va., April 4th, 1904.

DAVIS COAL & COKE Co.,
Thomas, W. Va.:

Gentlemen—On March 24th, 1904, I visited your Henry Shaft or No. 33 Mine, located at Henry, Grant County, West Virginia. After careful examination of the different working places and information obtained from mine employes, I mailed to you on the 25th of March, 1904, a certificate of inspection stating that the amount of fire damp given off in the mine made it very dangerous to work with open lights, and recommended the immediate adoption of the use of safety lamps and suggested the Wolfe lamp with magnet lock.

Would also recommend the employment of shot firers to fire all shots as a necessary precaution. I take the liberty of calling your attention to the importance of complying with the suggestions as outlined above, and trust you will give them your earliest attention.

Yours very truly,
(Signed) JERRY WESTLAKE,
Inspector 5th District.

THE DAVIS COAL AND COKE COMPANY,
OFFICE OF GENERAL SUPERINTENDENT,
Thomas, W. Va., April 11th, 1904.

HON. JERRY WESTLAKE,
State Mine Inspector,
Elm Grove, W. Va.:

Dear Sir—I have your favor of the 4th inst. recommending the adoption of safety lamps in Kittanning Seam, Henry Colliery, and also suggesting that shot firers be employed.

You of course fully understand that this Company and its officials want to comply fully with the law in letter and spirit, and to co-operate with your department in all things tending to make our works safer for our employes.

At the same time you also know that the Kittanning Seam at Henry is rather dirty, and the roof is not of a very good character. Hence the use of safety lamps has certain objectionable features of a very serious character. I do not find anything in our State laws covering the use of safety lamps, and will be greatly obliged to you for a statement as to your authority and our duty in the matter. Who furnishes the lamps? In some states the operating company is obliged by law to do so.

I have "Mining Laws of the State of West Virginia as Amended by the Legislature in Regular Session of 1901," Charleston, The Tribune Printing Company, 1903. Does this pamphlet cover the whole law?

Is not the deodorized naphtha a rather dangerous fluid to put in the hands of such miners as we have? Have you fully considered our class of miners in recommending safety lamps?

Our motto is "Safety First, Economy and Output Secondary Considerations." I have repeatedly told the Superintendent if he only got out one car of coal per day, that we wanted it gotten out in safety. I have also told him repeatedly to send no man in a place, that he would not be willing to have his own son work, even if such precaution involved the closing of the mine.

In the meantime how will it do to keep the force employed in Kittanning Seam not over ten men per shift? This I understand would enable us to operate to that extent without invoking your authority.

I had expected to meet you on your last visit and was keeping track of your movements with that end in view, even before the last accident occurred.

Very truly yours,

(Signed) J. F. HEALY,

Gen'l Supt.

OFFICE OF THE FIFTH DISTRICT MINE INSPECTOR,
Elm Grove, W. Va., April 19, 1904.

MR. JAMES W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

Dear Sir—I enclose a letter from Mr. J. F. Healy in regard to the adoption of safety lamps at Henry Shaft. They have had 4 men killed and 5 very badly burned in the last 6 months due to the explosion of fire damp, and in my opinion these accidents will continue to happen as long as open lamps are in use. I would be glad to have your advice in the matter and what action to take.

Yours very truly,

(Signed) JERRY WESTLAKE,

Inspector 5th District.

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, April 27, 1904.

MR. JERRY WESTLAKE,
Mine Inspector,
Elm Grove, W. Va.:

Dear Sir—I am in receipt of yours of the 19th inst. enclosing a letter from Mr. Healy, Gen. Supt., Davis C. & C. Co., in which he asks for information concerning your letter of instructions, dated the 4th inst. in which you recommend the adoption of safety lamps in the Kittanning Seam in the Henry Shaft in Grant County. I have directed a letter to our Attorney General asking for an opinion regarding certain features of the law which I think are applicable to this case and as soon as I get his opinion I will advise you further in regard to the matter.

Yours truly,

(Signed) JAS. W. PAUL,
Chief Mine Inspector.

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, April 26, 1904.

HON. ROMEO H. FREER,
Attorney General,
Charleston, W. Va.:

Sir—A question has arisen in the execution of the state mining law as to the authority of the state district mine inspector to enforce the use of safety lamps within the coal mines which generate explosive gases to such an extent that within a period of six months four lives have been lost and five persons were severely burned by the ignition of the explosive gases within one mine.

The latter part of section 10, chapter 106 of Acts of 1901 says, "The safety lamps used for examining any mine or which may be used for working therein, shall be furnished by, and be the property of the operator of the mine, etc., etc.," and section 12, chapter 50 of Acts of 1887 prescribe the course to be pursued by the mine inspector in case a mine is found which "by reason of any defect or practice in or at such mine, the lives or health of persons employed therein, are endangered."

Will you kindly state explicitly whether the mining statutes are sufficient to enable the mine inspector to force the use of safety lamps within a mine generating explosive gas, which in the judgment of the mine inspector, is dangerous to the lives of those working within the mine.

Yours truly,

(Signed) JAS. W. PAUL,
Chief Mine Inspector.

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, April 28, 1904.

JERRY WESTLAKE, ESQ.,
Mine Inspector, 5th District,
Elm Grove, W. Va.:

Dear Sir—Replying further to your letter of the 19th instant in reference to the adoption of safety lamps within the Henry Shaft of the Davis Coal & Coke Co., I beg to enclose herewith a copy of a letter addressed by the writer to the Attorney General of the State and a reply to the same in which an opinion is given relative to the authority the mine inspector has in enforcing the use of safety lamps within any mine.

In view of the casualties within the Henry Shaft resulting from the ignition of explosive gas it appears that the use of safety lamps would add to the safety of the employes. ,

If the men employed are of a class that cannot with safety use a safety lamp, then it would appear that they are unsafe men to use open lamps where gas is found. ,

It is unfortunate that the coal requires such rigid inspection, necessitating a good light, but if you have fully and carefully considered all of the details within the mine and find that no other arrangements can be had whereby the safety of the men can be assured, then it will be your duty to follow your best judgment in requiring the use of safety lamps of modern design.

For information to the Davis Coal & Coke Co. you may forward them the contents of this letter and the three enclosures.

Yours truly,

(Signed) JAS. W. PAUL,
Chief Mine Inspector.

3 enclosures.

STATE OF WEST VIRGINIA,
OFFICE OF ATTORNEY GENERAL,
Charleston.

April 28, 1904.

HON. JAMES W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

Dear Sir—I have the honor to acknowledge the receipt of yours of the 26th in regard to the statute requiring safety lamps to be used within coal mines which generate explosive gases.

I beg to advise you that the statute is amply sufficient for the enforcement of the use of safety lamps when so directed by the mine inspector. This statute recognizes very fully the delegated authority under the law to the mine inspector to decide when in his opinion the use of such safety lamps is necessary to the safety of those employed within the mine.

Yours respectfully,

(Signed) ROMEO H. FREER,
Attorney General.

STATE OF WEST VIRGINIA,
OFFICE OF ATTORNEY GENERAL,
Welch.

Welch, W. Va., July 28, 1897.

HON. JAMES W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

Dear Sir—Owing to my prolonged absence from home, your letter of July 3rd has remained unanswered to this time.

I am very decidedly of the opinion that where a mining company employs a number of men in the working of its operation, then it cannot evade the law by discharging a sufficient number to reduce the number employed below ten, unless this is done before the attention of its officers is called to its failure to comply with the law.

I do not think, however, that the mere fact that sometime in its past history the company employed more than ten men, would necessarily subject it to the requirements and penalties of our statute but that the question should turn on the fact whether or not at the time the attention of its officers is called to the matter, the company actually employs more than ten men in the working of its mine.

Very respectfully,

(Signed) EDGAR P. RUCKER,
Attorney General.

CITIZENSHIP OF FIRE BOSS.

The following correspondence is in reference to the employment of fire bosses, and has bearing upon what constitutes a citizen under the mining statutes:

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, May 27, 1904.

MR. F. HOWALD, Gen. Mgr.,
Rush Run, W. Va.:

Dear Sir—Your letter of the 19th inst. was received on the following day and I have been making an effort to see our Attorney General in regard to the matter about which you write, but so far I have been unable to see him. I will continue my efforts to talk the matter over with him and have him advise me, when I will again write you. You will see on page 16 of the pamphlet I am enclosing the law in regard to fire bosses.

Yours truly,

(Signed) J. W. PAUL,
Chief Mine Inspector.

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, May 27, 1904.

HON. ROMEO H. FREER,
Attorney General,
Charleston, W. Va.:

Dear Sir—Section 10 of Chapter 106 of the Acts of 1901 states that a fire boss or bosses, when employed, shall be a citizen or citizens of this State. I find at one mine in the State a fire boss has been employed who has resided in this country for three years and agrees to take out his first naturalization papers at once. Will his taking out the first papers now satisfy the mining law as to his citizenship?

At your convenience I would be glad to have an expression from you in regard to this matter.

Yours truly,

(Signed) JAS. W. PAUL,
Chief Mine Inspector.

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, June 2, 1904.

MR. F. HOWALD,
General Manager,
Rush Run, W. Va.:

Dear Sir—Further replying to your recent inquiry concerning the eligibility of fire bosses, I beg to enclose herewith a copy of an opinion by the Assistant Attorney General. There is some question as to what constitutes a citizenship of this State. Under the circumstances I think it would be well for you to confer with some attorney and follow his advice in the matter.

I would take it that a man's right to vote at regular elections would not be necessary to make him a citizen, since under the Constitution of the United States all females over twenty-one years of age are citizens.

Yours truly,

(Signed) J. W. PAUL,
Chief Mine Inspector.

STATE OF WEST VIRGINIA,
OFFICE OF ATTORNEY GENERAL,
Charleston.

May 31, 1904.

MR. JAMES W. PAUL,
City:

Dear Sir—I beg to acknowledge the receipt of yours of the 27th in regard to the law in this State relating to the employment of fire boss or bosses.

Section 10 of Chapter 106 of the Acts of 1901 provides that a fire boss or bosses, when employed, shall be a citizen or citizens of this State.

You state in your letter that you find at one mine in this State a fire boss, who when he received his employment did not have his naturalization papers, and then you ask further, will his taking out the first papers of naturalization satisfy the mining law as to his citizenship. The same law regulating this employment, and the same principle is involved as would be in the case of an appointment; say for instance this office would have to be filled by an appointment by the Governor, in that case if it was afterwards discovered that such appointee was disqualified for some cause there would be a vancancy, and there would have to be a new appointment made, because at the time such appointee was appointed he was not eligible to hold the office, consequently, a vancancy existed during the time of the alleged appointment; just so in the case of an employe of the kind mentioned by you at the time of the employment, the employe was not such a person as could hold the office or the position under the law. Somebody has violated the law by reason of this appointment. Whether this fact was known to the operator or employing power is one proposition and as to whether they did it is another proposition. The law might be satisfied if after the naturalization papers have been received a legal appointment is made, but certainly the one now in force is null and void.

Yours very truly,

(Signed) E. K. REEDY,

Asst. Atty. Gen'l.

STATES OF WEST VIRGINIA AND OHIO.

JOINT INSPECTIONS.

To determine the jurisdiction of this Department the following correspondence and opinions have reference to the mine operated by the La Belle Iron Works in Brooke County, W. Va., and Jefferson County, Ohio:

JAMES W. PAUL,
Chief Mine Inspector,
State of West Virginia.

Charleston, Sept. 14, 1904.

HON. R. H. FREER,
Attorney General,
Charleston, W. Va.:

Dear Sir—Through my district inspector of the 5th Mine Inspection District and the Chief Inspector of Mines of the State of Ohio it has been brought to my attention that the mine workings of the La Belle Shaft in Jefferson County, Ohio, have been extended across the Ohio River and the product of the mine is excavated from under territory in Brooke County, West Virginia.

As the workings of this mine generate an explosive gas it is important that the mine be inspected by the authority of the mining statutes of Ohio or West Virginia, or by both.

This office has had correspondence with the Mining Department of the

State of Ohio and it appears that it will be necessary for the two Departments to work jointly in the exercise of our duties.

For your information I am enclosing copies of letters from the Chief Inspector of Mines and an opinion of the Attorney General of the State of Ohio, and will ask if you concur in this opinion.

A reply and return of the enclosures will be much appreciated by,

Yours very truly,

(Signed) JAMES W. PAUL,
Chief Mine Inspector.

GEO. HARRISON,
CHIEF INSPECTOR OF MINES.

Columbus, Ohio, August 16, 1904.

HON. JAS. W. PAUL,
Chief Inspector of Mines,
Charleston, W. Va.:

Dear Sir—You will see by the enclosed Ruling of the Attorney General of the State of Ohio, in reply to a statement of the circumstances and location of the La Belle Mine submitted by us for his opinion, that we can and are ready to co-operate with your Department in regard to our respective duties there.

Mr. Davis has advised us that he is in receipt of communications, both from yourself and your Mr. Westlake, looking to a general inspection of the mine as soon as convenient to both Departments.

We have made arrangements for a meeting of all of our District Inspectors at this office on September 1st, and will then take up the matter with Mr. Davis, and will be pleased to make any arrangements that you may desire after that date.

We also enclose you a copy of the communication which we addressed the Attorney General, bringing before him the facts and conditions of the La Belle Mine, and soliciting his opinion as to this Department's jurisdiction in the premises, and if you so desire you can place them before the Attorney General of your respective State.

Very truly yours,

(Signed) GEO. HARRISON,
Chief Inspector of Mines.

GEO. HARRISON,
CHIEF INSPECTOR OF MINES.

Columbus, Ohio, July 28, 1904.

HON. WADE H. ELLIS,
Att'y Gen'l State of Ohio,
Columbus.

Dear Sir—This Department would be very much pleased to have your opinion as to its proper jurisdiction in regard to the La Belle Mine located

in Jefferson County, Ohio. The La Belle Mine is one of the oldest mining properties in the State; its main hoisting shaft, and also its leading working places, have been driven under the Ohio River and beyond it into the State of W. Va., and its present coal production is entirely from under the soil of that State.

First: "Has this Department any jurisdiction beyond the low water mark on the Ohio side of the River?"

Second: "If this Department has no jurisdiction beyond that limit, can we co-operate with the West Virginia Mining Department, and act jointly in the exercise of our respective duties there?"

This mine generates considerable carbureted hydrogen gas (Explosive Gas), and has a large area of worked out territory, and in consequence requires special care and attention.

Very truly yours,

(Signed) GEO. HARRISON,
Chief Inspector of Mines.

STATE OF OHIO,
OFFICE OF ATTORNEY GENERAL,
Columbus.

August 16, 1904.

HON. GEORGE HARRISON,
Chief Inspector of Mines,
Columbus, Ohio:

Dear Sir—Your letter of July 28th received. You make two inquiries. First: "Has this Department any jurisdiction beyond the low water mark on the Ohio side of the River?"

The jurisdiction of your Department is co-extensive with the territory limits of the State. From the early decisions of the Supreme Court of the United States, reported in 5th Wheaton, down to this time it has been practically settled that the territorial limits of the State of Ohio are bounded on the south and east by low water mark of the Ohio River.

Second: "If this Department has no jurisdiction beyond that limit, can we co-operate with West Virginia Mining Department and act jointly in the exercise of our respective duties there?"

In answer to this inquiry I would say that in the situation you propose, co-operation between your Department and that of West Virginia is absolutely essential. Consultation and agreement between the two Departments would no doubt result in a great benefit to all parties concerned. The only restriction at all on such co-operation should be this, that orders made or directions given by the respective Departments within the limits of their respective jurisdiction should be promulgated separately by each Department, and not jointly.

Very truly yours,

(Signed) GEORGE H. JONES,
Ass't Att'y General.

STATE OF WEST VIRGINIA,
OFFICE OF ATTORNEY GENERAL,
Charleston.

September 16, 1904.

HON. JAS. W. PAUL,
Chief Mine Inspector,
Charleston, W. Va.:

Dear Sir—I have the honor to acknowledge the receipt of your communication of the 14th, involving a question of the La Belle Mine, operating in both the States of Ohio and West Virginia.

I have examined the letters of the Chief Mine Inspector of the State of Ohio and also that of the Attorney General of said State, and fully concur in the opinion submitted by the Attorney General of the State of Ohio. I think that it is a very satisfactory method, and should displease neither the authorities in the State of Ohio nor those of West Virginia. I am fully of the opinion, that the rights and duties of the mining officers of the two States are co-extensive, and they should jointly make such inspection.

Very truly yours,

(Signed) ROMEO H. FREER,

Attorney General.

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B.M.

8-13-70

W.P.A # 6430

